

# Fmmco: RADIO HANDBOOK

1927 EDITION

Free Only to Users of Emmco Products

Australian Amateur Call Signs
New Zealand Amateur Call Signs
Australian Broadcasting Stations
New Zealand Broadcasting Stations
Short Wave Broadcasters
Circuits, Wavelengths, Times
Emmco Radio Products

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#### INTRODUCTION

AST year the 1926 edition of EMMCO RADIO HANDBOOK, which was distributed free to all users of Emmco Radio parts through genuine Emmco Radio dealers, met with universal approval. The circuits, list of calls, other particulars for the information of broadcast listeners, together with the description of Emmco radio parts, all constituted a handbook which combined the essential particulars required by most radio enthusiasts, together with particulars and illustrations of the most popular parts for use by home constructors.

This 1927-28 edition has been revised to bring the data entirely up to date, and incorporates many new editorial features which changing radio conditions have rendered necessary. Included also in this enlarged edition are many new Emmco radio parts, such as "B" Battery Eliminators, Battery Chargers, A B C Eliminators, One Way, Two Dial Chassis, etc., which are already well known in Australia.

As explained elsewhere in this issue, Electricity Meter Manufacturing Co. Ltd. has found the demand for radio parts, together with many other departments of the Company's activities, to have increased to so enormous an extent that it has been found necessary to spend many thousands of pounds for the erection of an entirely new and tremendously enlarged factory, which will house every modern convenience and equipment necessary for the production of radio and electrical apparatus.

The basis of the Company's operations and advancement has been confidence—confidence in itself, its employees, and its products, coupled with the confidence of the public, has been the foundation upon which the Company has built up the biggest radio manufacturing business in the Commonwealth, and has placed Electricity Meter Manufacturing Co. Ltd. in the position of being one of the world's largest manufacturers of all types of radio parts, especially transformers.

It is almost unnecessary to say that all Emmco radio parts are absolutely guaranteed against manufacturing defects. The organization is such that the progress of every single article in the course of production may be followed, step by step, so that all parts are manufactured to exactly the same standard, every part is tested, and a high quality of production is maintained throughout. The Australian sales of Emmco radio parts to-day are more than double those of any other individual brand of radio parts, and it is no exaggeration to reiterate the statement that Emmco parts are universally accepted as symbolic of all that is best in accessories necessary for good radio reception.

New parts are being brought out every season, and the Emmco corps of radio engineers are working in close touch and co-operation with the best radio experts in America and England.

### BROADCASTING STATIONS IN AUSTRALIA

#### "A" CLASS

		METRES.	WATTS.	Freq. Kilocycles.
2BL	Broadcasters (Sydney) Ltd., Sydney	353	5,000	849.3
3LO	Broadcasting Co. of Aust. Pty. Ltd.,		DELET	
	Melbourne	371	5,000	808.14
2FC	Farmer & Co. Ltd., Sydney	442	5,000	678.3
3AR	Associated Radio Co. Ltd., Melbourne	484	1,600	619.5
4QG	Queensland Radio Service, Brisbane	385	5,000	778.7
5CL	Central Broadcasters Ltd., Adelaide	395	5,000	759
6WF	Westralian Farmers Ltd., Perth	1,250	5,000	240
7ZL	Tasmanian Broadcasters Pty. Ltd.	,		
	Hobart	516	3,000	560

#### "B" CLASS

2BE	Burgin Electric Co., Ltd., Kent Street,			
	Sydney	316	100	949
2GB	Theosophical Broadcasting Station Ltd.,			
	Sydney	316	3,000	949
2KY	Trades and Labour Council, Sydney	280	1,500	1,070.8
2HD	H. A. Douglas, Newcastle, N.S.W	288	100	1,039
2MK	Mockler Bros., Bathurst, N.S.W	275	250	1,089
2UE	Electrical Utilities, South Randwick	293	250	1,024
2UW	O. Sandel, 213 Elizabeth St., Sydney	267	500	1,124
3DB	3DB Broadcasting Station, Swanston			
	Street, Melbourne	255	500	1,179
3UZ	O. J. Nilsen & Co., Melbourne	319	100	939.9
4GR	Gold Radio Elec. Service, Toowoomba,			
	Q'ld	294	100	1,019
5DN	5DN Pty. Ltd., Parkside, S.A	313	500	957.9
5KA	Sport Radio Broadcasting Station, 51			
	Kintore Ave., Prospect, S.A	250	1,000	1,199

#### AUSTRALIAN RADIO CALL SIGNS

Call Sign. Class.

D	 	Dealer's Station	
X	 	Experimental Amateur	Station
L	 	Land Station	
P		Portable Station	

Bexley

2FR

D		Dealer's Station	Sig		Clas	s. Name and Address.
D X L P S		Experimental Amateur Station	2F		X	L. R. Filmer, "Bundee," Toronto
L		Land Station	2G	A	X	Miss F. V. Wallace, cnr. Richard and George-
P		Portable Station	000	~	**	streets, Greenwich
S		Special	2G		X	G. C. Cawood, Kurrajong Creek, Dorrigo
T		Trawler	2G	D	X	Concord Radio Club, 12 Wallace-street,
		THE RELEASE WAS A STREET OF THE PERSON OF TH	000			Concord
		WHILL COURT WAYER	2G		L	Gundagai Public Works Department
0 11		NEW SOUTH WALES.	2G		X	G. M. Coutts, 10 Simpson-street, Mosman "Goorangai," c/o Cain and Sons, Municipal
Call			2G	0	T	"Goorangai," c/o Cain and Sons, Municipal
Sign.			1		Total !	Fish Markets, Sydney
2AB	X	A. V. Badger, 20 Neutral-st., North Sydney	2G		X	C. S. Mackay, Urunga
2AC	X	G. C. Edwards, Waikare, Lane Cove-road,	2G		X	E. Barlow, Guildford
		Lane Cove	2G	U	T	"Gunundaal," Coastal Trawlers Co., Golds-
2AD	X	A. L. Dixon, 59 Second-street, Canterbury				brough Chs., Sydney
2AG	D	Ashfield Service Station, Ashfield	2G		X	W. G. Woolnough, Park Avenue, Gordon
2AN	X	W. Gardner, Central Mine, Piper Street,	2H	C	X	H. R. Carter, The Armidale School, Armidale
		Broken Hill	2H		X	H. H. Davis, Torrington-rd., Strathfield
2AR	X	V. H. Hudson, 1 Terrace-rd., Dulwich Hill	2H		X	H. A. Marshall, 94 Francis-street, Bondi
2AS	X	A. J. Smith, 27 Station Street, Harris Park	2H	S	X	Franker & Hooker, 38 Phillip St., Bondi
2AV	X	A. W. Thurstan, Argyle-road, Penshurst	2H	T	X	H. K. R. Thomas, Strathearn, Murdoch-st.,
2AY	X	J. P. Cureton, 203 Burwood-road, Burwood				Neutral Bay
2BA	T	Bar-eu-Mal (c/o Red Funnel Fisheries Ltd.),	2IJ		X	A. H. Gray, 5 Flat, "The Maples," Killara
		Sydney	211	1	X	J. Payne, 53 Allison-rd., Randwick
2BC	X	N. J. Hurll, Northcote Avenue, Killara	2J/	4	X	A. J. Mead, 13 Hamden-st., Ashfield
2BD	L	Barren Jack Dam (Public Works Dept.)	2J(		X	E. J. Cawthorn, Los Angeles, Cootamundra
2BF	X	L. E. Forsyth, "Hoylake," Sailor Bay-rd.,	2J1		X	J. B. Davies, 1 Mill's Crescent, Burwood
		Northbridge.	2J1		X	J. H. Brown, Shadwell, Chelmsford-avenue,
2BK	X	F. N. Leverrier, Wentworth-road, Vaucluse				Botany
2BM	X	Bernard Martin, Mona-street, Bankstown	2J1	L.	X	J. L. Young, Bulli Plain, Corowa
2BR	T	"Brolga" Coastal Trawlers Co., Golds-	2J1	P	X	J. H. A. Pike, Rawson-street, Epping
		brough Chs., Sydney	2J1		X	J. G. R. Reed, 7 Sloan-street, Summer Hill
2BS	X	H. B. Sunter, 3 Flat, Ambassadors Court,	2J8		X	J. M. Stanley, 97 Byng Street, Orange
		brough Chs., Sydney H. B. Sunter, 3 Flat, Ambassadors Court, Bondi-rd., Bondi Beach	2J'		X	C. F. A. Luckman, "Aldersey," Wangee-rd.,
2BV	X	Waverley Amateur Radio Club, 89 Mac-			10	Lakemba
		pherson-street, Waverley	2J1	П	X	J. L. White, Cowra Station, Torrawingee
2BW	X	W. H. Barker, Wallace-street, Concord			-	Station Station
2BY	X	W. H. Barker, Wallace-street, Concord E. C. Arnold, Binnia Street, Coolah	2J	W	X	E. J. Williams, 51 Ocean-ave., Double Bay
2CA	L	Cootamundra Public Works Department	2J		X	J. W. Young, "Yothahnee," Eastern-road,
2CC	x	Sydney University	20		4	Turramurra
2CL	X	G. Caletti, Beauchamp-street, Punchbowl	2K	C	X	Turramurra. R. H. Fry, "Baretta," Brighton-street, Croydon
2CM	X	C. D. Maclurcan, Agnes-street, Strathfield			-	Croydon Croydon
2CR	X	L. V. G. Todd, Denison-street, West Tam-	2K	F	X	K. Fryer, "Zealandia," Lumsden-street,
		worth	C 20 10			Suspension Bridge
2CS	X	L. T. Swain, Frederick-street, Waratah	2K	0	T	"Koragga," c/o Coastal Trawler Co., Golds-
2CU	X	D. D. Campbell, Ulmarra	-			brough Chs., Sydney
2CX	X	D. D. Campbell, Ulmarra H. A. Stowe, "Rawene," Royal-st., Chats-	2K	T	X	L. M. Seccombe, 20 Villiers-street, Rockdale
		wood	2 K		X	A. Grant, Taylor's Arm, Roadside, Macks-
2CZ	X	G. W. Exton, 173 Molesworth-st., Lismore			-	ville, N.S.W.
2DE	X	W. P. Renshaw, "Waimea," Lord-street,	2L	C	X	L. C. Presdee, 20 Norton-street, Leichbardt
		Roseville	2L		X	Leichhardt Radio Club, 176 Johnston-street,
2DG	X	D. G. Campbell, Sunny Ridge, Kyogle		-	-	Annandale
2DI	T	"Dibbiu," c/o Cain and Sons, Municipal	2L	T.	X	L. S. Lane, "Narbeth," The Ave., Randwick
		Fish Markets, Sydney	2L		X	L. M. Wilson, 6 Kalimna Flats, Reginald-st.,
2DJ	X	F. B. Cooke, Namoi-road, Northbridge		ATA		Cremorne
2DN	X	C. E. H. Blandford, 47 Foord-av., Hurlstone	2L	0	X	L. N. Schultz, "Waraba," Burns Bay-rd.,
		Park	~~	-	**	Lane Cove
2DS	X	R. R. Davis, "Yuruga," Fisher-avenue,	2L	P	X	L. P. R. Bean, 86 Muston-street, Mosman
		Vaucluse	2L		X	R. L. Rowe, 36 Alfred-street, Milson's Point
2DU	T	"Durendee," c/o Red Funnel Fisheries,	2L		X	L. J. Wellman, 18 Meek's-rd., Marrickville
		Woolloomooloo	21		X	R. H. Shaw, 129 Grafton-st., Woollahra
2DY	X	D. G. Lindsay, Burgoyne-street, Gordon	21		X	C. E. Morton, "Saida," Underwood-rd.,
2EC	X	E. C. Crouch, Spencer-street, Mosman	211		**	Homebush
2EH	X	H. Miller, Ness-avenue, Dulwich Hill	2N	IL	X	Mosman Research Labs. (E. C. Crouch), 100
2EM	x	E. J. T. Moore, 180 Kurraba Road, Neutral	211		AN	Muston-street Mosman
THE REAL PROPERTY.	**	Bay	21	IM	L	Muston-street, Mosman "Murrumburrah" (Public Works Dept.)
2FG	X	F. Gibbons, 24 Phillips-st., Neutral Bay		IR	X	J. E. Stewart, Gorrick-street, Mayfield
2FK	X	F. Welch, 1 Augusta-rd., Manly	21		Y	
2FM	x	F. H. Murray, Glendower, Dumaresq-road,	2N		X	Max. Spitzkowsky, 3 Veda-street, Hamilton
ZI III	*	Rose Bay		IW	X	J. Nangle, Observatory, Sydney L. G. Wearne, "Essbank," Windon-avenue
The section of	(23/1)	nose Day	41	Y AA	A	L. G. Wearne, Essbank, Windon-avenue,

Homebusn
Mosman Research Labs. (E. C. Crouch), 100
Muston-street, Mosman
"Murruburrah" (Public Works Dept.)
J. E. Stewart, Gorrick-street, Mayfield
Max. Spitzkowsky, 3 Veda-street, Hamilton
J. Nangle, Observatory, Sydney
L. G. Wearne, "Essbank," Windon-avenue,
Croydon. 2ML 2MM 2MR XXX 2MS 2MU 2MW Croydon. 2NI H. B. Hammond, "Chesterfield," Chesterfield-rd., Epping

Name and Address.

Rose Bay
E. J. Baker, 62 Estell-street, Maryville
F. R. Bassett, "Ramona," Carrington-st.,

Call	Class	Name and Address
Sign. 2NO	Clas	D. B. Knock, 142 South Head Road, Vaucluse
2NS	X	T. Evans, Charles-street, Blayney L. W. Mashman, "Gresley," 8 Donnan-st.,
20B		Reviev
20G	X	G. J. Menin, "Wilga," Ramsay-street,
2PA	X	Public Works Department
2PB 2PL	X	" "
2PQ	X X X X D	" " " "
2PR 2PS	X D	P 20 01 11 11 11 11 11 11
2QA	T	Trawler "Goonambee," Sydney
2QB 2QD	T	Trawler " Milmumul," Sydney Trawler " Bervll " Sydney
2QJ	T	Trawler "Jane," Cam and Sons, Sydney
2QT 2RB	X	R. E. Beljon, 92 Lawrence-street, Lithgow
2RC	TTTXXXX	R. Chilton, Gloucester
2RE	^	P. G. Stephen, Mona-street, Granville Trawler "Goonambee," Sydney Trawler "Milimumul," Sydney Trawler "Beryll" Sydney Trawler "Jane," Cam and Sons, Sydney A. H. Mutton, 31 Stafford-street, Stanmore R. E. Beljon, 92 Lawrence-street, Litthgow R. Chilton, Gloucester R. M. E. Rees, 608 Old South Head-road, Bellevue Hill E. C. Reading, Charlotte-street, Bangalow
2RG 2RH	X	E. C. Reading, Charlotte-street, Bangalow P. R. Hentye, "Eagleton," Gordon-road, Killara
		Killara
2RJ 2RM	X	R. J. Fagan, Sunnyridge, Mandurama R. A. Macfarlane, Wakaden-street, Griffith R. W. Turnbull, 2 Ethel-street, Burwood
2RO	X	R. W. Turnbull, 2 Ethel-street, Burwood
2RP 2RT	D	R. J. Turner, 259 Sloane-street, Gordon
2RV 2RW	X	R. W. Turnoun, 2 Ether-street, Burwood R. Primmer, Gordon Street, Gordon R. J. Turner, 259 Sloane-street, Goulburn R. V. Thomas, 18 Plowman-st., North Bondi R. W. Cusiter, "Bellaire," Kissing Point- read Turnamure.
		R. W. Cusiter, "Bellaire," Kissing Point- road, Turramurra H. C. St. John, 82 Gibbes-street, Rockdale J. N. Atkinson, 50 Spencer-road, Mosman W. E. Salmon, Poldhu, cr. Park-rd. and Olympia-st., Naremburn A. Sibly, 20 Carrabella-st., Kirribilli
2RX 2RZ	X	H. C. St. John, 82 Gibbes-street, Rockdale L. N. Atkinson, 50 Spencer-road, Mosman
2SA	X	W. E. Salmon, Poldhu, cr. Park-rd. and
2SB	X	A. Sibly, 20 Carrabella-st., Kirribilli
2SH	X	A. Short, Young Street, Lambton
2SM 2SP	X	Olympia-st., Naremburn A. Sibly, 20 Carrabella-st., Kirribilli A. Short, Young Street, Lambton H. W. S. Caldecott, Quinton-rd., Manly R. Evans, "Garth Craig," 6 Flood-street, Clovelly A. B. Wright, Coledale
255	x	Clovelly A. E. Wright, Coledale
2ST	X	S. E. Tatham, 160 Castlereagh-st., Sydney
2SW	X	Clovelly A. E. Wright, Coledale S. E. Tatham, 160 Castlereagh-st., Sydney C. L. Southwell, "Khan Unis," Kameruka- road, Northbridge C. W. Slade, Rockleigh, Lang-st., Croydon   T. H. Squelch, Byron-street, Bangalow T. K. Abbott, Murrulla, Wingen H. E. A. Turner, "Carmen," 13 Erith-street, Mosman
2SX	X	C. W. Slade, Rockleigh, Lang-st., Croydon
2TB 2TK	DX	T. K. Abbott, Murrulla, Wingen
2TM	X	H. E. A. Turner, "Carmen," 13 Erith-street,
2TY	X	T. R. Troy, "Glenroy," Great Northern-rd.,
2UI	X	Mosman T. R. Troy, "Glenroy," Great Northern-rd., West Maitland Illawarra Radio Club, 75 Montgomerie-st.,
		Kogarah
2UK 2VS	X	H. L. Sigal, 91 Jersey-rd., Woollahra V. E. Stanley, 9 McLean-avenue, Chatswood W. A. Royle, 329 New South Head-road,
2WA		W. A. Royle, 329 New South Head-road,
·2WB		Edgecliffe W. N. Bullivant, Charles-street, Albury
2WC 2WE	X	W. Cavanagh, "Crecy," Wylde-st., Potts Pt.
		W. N. Bullivant, Charles-street, Albury W. Cavanagh, "Creey," Wylde-st., Potts Pt. Standard Telephones & Cables Ltd., 200 Castlereagh-street, Sydney
2WG 2WH	X	W. D. Graham, 44 Cameron-st., Rockdale W. H. R. Stitt. Wandary. Forbes
2WI	X	W. D. Graham, 44 Cameron-st., Rockdale W. H. R. Stitt, Wandary, Forbes W. I. A. (N.S.W. Div.), 5 Elizabeth-street,
2WJ	X	
2WK	X	W. D. Kennedy, 16 Mabel-st., Willoughby
2WL 2WR	X	W. J. Peell, 3 Chapman-street, Summer Hill W. D. Kennedy, 16 Mabel-st., Willoughby W. L. Carter, 53 Cardigan-street, Stamore Wahroonga Radio Club, East Anglia, Young-
2WS	x	street, Wahroonga W. S. Breden, Kitchener-parade, Newcastle
2WT	X	C. R. Watt, Warrenfels, Tenterfield
2WW		Wahroonga Radio Club, East Anglia, Young- street, Wahroonga W. S. Breden, Kitchener-parade, Newcastle C. R. Watt, Warrenfels, Tenterfield "Wireless Weekly (A. W. Watt), "Folke- stone," Lavender-street, Lavender Bay W. J. Zech, 124 Parramatta-road, Ashfield H. K. James, 12 Rosemount-avenue, Summer Hill W. A. Craig, "Ulabba" Irrarast, Croydon
2WZ	X	W. J. Zech, 124 Parramatta-road, Ashfield
2XA		Hill
2XI 2YB	X	W. A. Craig, "Uabba," Irrara-st., Croydon Croydon Radio Club, Lang-street, Croydon C. W. Donne, 12 Palm Court, Eaton Avenue,
2YD	X	C. W. Donne, 12 Palm Court, Eaton Avenue,
2YH	x	Darlinghurst W. H. Hannan, "Clen Osmond," 23 Prince
		Alfred-street, Mosman

Call Class. Name and Address. P. Spencer Nolan, "Monesk," 152 Bellevue 2YI X road, Double Bay R. H. Sainsbury, "Kermanshah," 6 Wallray-2YJ X street, Concord West . W. Simpson, Sibbick-street, Five Dock 27.1 2ZL X Otty, Hurst Villa, Killingworth, via Newcastle T. R. Willmot, Coramba-road, S. Grafton N. S. Gilmour, 101 Wycombe-road, Neutral 2Z0 X 2ZU X Bay M. Bristow, "The Towers," Kurraba-2ZX X J. Road, Neutral Bay 2ZY X N. Woollett, 33 Wolseley-road, Mosman

VICTORIA. J. A. Davey, 28 Cole-st., Elsternwick A. I. W. Bent, 14 Coronation-st., Geelong W. A. H. Faul, 3 St. Leonard's-av., St. Kilda E. Salamy, Timor-street, Warrnambool N. V. Cansick, 81 Southey-st., St. Kilda H. D. Kerr, 1214 Sturt-st., Ballarat A. Forecast, 22 St. George's-rd., Malvern R. D. Morris, 61 Bealiba-rd., Caulfield A. W. Thomson, "Arbroath," Ridley-st., Sunshine 3AD 3AF 3AH 3AJ XXXXXXX 3AK 3AL 3AM 3AP SAT Sunshine S. H. Milligan, "Allawah," Nicholas-street, Chilwell 3AU X W. W. Jenvey, "Devonshire," 12 Lord-street, Caulfield 3AY X 3BC X Brighton Radio Club, Higinbotham Hall, Brighton H. Cox, 41 Orrong-rd., Elsternwick 3BD E. H. Cox, 41 Orlong-rdt, Eisterhwick Laing, Osbourne, Terang C. R. Whitelaw, Gillies-st., Benalla S. C. Baker, Clarendon-st., S. Melbourne J. C. Fitchett, 13 Holmewood-av., Brighton H. K. Love, "Lindum," Ferncroft-av., 3BG 3BH 3BK X 3BL K. Love, " East Malvern. 3BM X J. H. Hood, 6 Alexander-st., East St. Kilda W. F. M. Howden, 10 Hill-st., Box Hill H. Holst, 27 Bambra-rd., Caulfield 3BP 3BQ 3BY C. A. Hughes, Ingor-st., Ararat W. F. Sievers, 30 Lesney-st., E. Richmond University, Melbourne 3CA 3CB X 3CC 3CF C. I. Falconer, 13 Norris-st., Canterbury H. C. Harris, Sherwood-st., Birchip 3CH D 3CI Cliffy Island Lighthouse C. J. Manning, Whitehorse-rd., Ringwood Ernest Cook, Glenhope, Tresco F. W. Cooke, 23 Henry-st., Footscray 3 CJ 3CK 3CM C. J. Patterson, 82 Burke-rd., E. Malvern Coburg Radio Club, 80 Sydney-rd, Brunswick C. J. Sabelberg, 100 Station-st., P. Melbourne R. S. Dawson, 23 Kensington-rd., S. Yarra 3CP 3CR 3CS 3DA Drewleigh Business College, Melbourne S. A. Embling, 296 William-st., Toorak D. A. J. Stocks, 35 Highfield-rd., Canterbury N. Culliver, 91 Manningtree-rd., Hawthorn 3DB 3DC 3DJ 3DP 3DR J. H. Dexter, 23 Beaconsfield-pde., Northcote
H. W. Maddick, 89A Spray-st., Elwood
Metropolitan Fire Brigade, Eastern Hill
Metropolitan Fire Brigade, Easten Hill
N. J. Boyd, Pearce-st., Caulfield
H. W. Doudney, 7 Dickens-st., Balaclava
J. Givens, 19 Logan-st., Canterbury
H. W. Read, 147 Lygon-st., E. Brunswick
E. S. Yorston, "Hoversta," Hawthorn-rd.,
Caulfield 3EF 3EH 3EJ S 3EL XXXX 3EM 3EP 3ER 3EW 3FA D Kerang Motors, Scoresby-st., Kerang. C. E. H. Robson, 16 Hawsleigh-av., Balaclava Fitzroy Radio Club, 72 Henry-st., N. Fitzroy G. J. Frogley, 5 Richmond Terrace, Rich-3FR SEV 3GF mond G. A. Gamon, 310 Clark-st., Northcote W. M. Hale, "Ben Nevis," Harvey-street, 3GG 3GH X Anglesea 3GI G. Cresswell, 5 Loch-st., Camberwell G. L. Batthold, 72 Union-st., Malvern 3GL 3GM X R. McCulloch, 511 Havelock-street,

Ballarat

#### Australian Radio Call Signs-Continued

Call

Can	C1	Name and Address	Can	CI.	Mana - 1 111
Sign.	Class	Name and Address.	Sign.	Cla	Name and Address.
3GN	X	H. G. Selman, 51 Fairview-av., Newtown G. H. Rumbold, 120 Wells-st., Bendigo	3 SL	X	L. W. Southwell, c/o. Mrs. Neal, High-st.,
3GR	X	G. H. Rumbold, 120 Wells-st., Bendigo	000		Seymour
3GS	X	G. S. C. Semmens, State School, Queenstown H. G. Williamson, Rainbow	3SR	X	J. Sullivan, Vallourn S. W. Gadsen, 5 Miller Grove, Kew T. P. Court, 4 Sorrett-av., Malvern A. H. Buck, 7 Carrington-st., Glenferrie W. S. Treagear, 22 Cole-st., Upper Hawthorn R. C. Leckie, "Clifstone," 40 Bamfield-st., Sandringham
3GW	X	H. G. Williamson, Rainbow	3SW	X	S. W. Gadsen, 5 Miller Grove, Kew
3HA	X	H. H. Blackman, 44 Osborne-av., E. Maivern	3TC	X	T. P. Court, 4 Sorrett-av., Malvern
3HB	X	Sunshine Radio Club, Hampshire-rd., Sun-	3TM	X	A. H. Buck, 7 Carrington-st., Glenferrie
		H. H. Blackman, 44 Osborne-av., E. Malvern Sunshine Radio Club, Hampshire-rd., Sun- shine. (H. Bird.)	3TR	X	W. S. Treagear, 22 Cole-st., Upper Hawthorn
3HH	X	F. H. Mughan, 15 Staniland-av., Malvern	3TU	X	R. C. Leckie, "Clifstone," 40 Bamfield-st.,
3HL	X	A. T. Hutchings, Byron Avon, Calawadda A. H. Reid, 3 Kingston-st., E. Malvern J. E. Dane, "Wahroonga," Toorak-road,	//2.21 DE 1952 DE		Sandringham
3HR	X	A H Reid 3 Kingston-st E Malvern	3UI	X	R. M. Dalton, 28 Canterbury-rd., Canterbury
3JD	X	I F Dane "Wahroonga" Toorak-road	3US	X	A. A. Watson, 345 Richardson-st., Middle
91 D	A		303	A	Park
OTO	n	Targe & Clay 100 Target ad Cambanyall	OVE	37	
3JG	D	Jones & Giew, 122 Toorak-rd., Camberwell	3VP	X	C. W. Baker, "Ewell," 101 Williamson-st.,
3JJ	X	Jones & Glew, 122 Toorak-rd., Camberwell J. J. McNath, 54 St. Vincent Place, Albert Park	0.00		Bendigo
	-	Park	3VR	X	R. N. Abbott, 52 Blanche-st., St. Kilda
3JK	X	I. K. Herd, Main-st., Bacchus Marsh	3WB	X	W. L. Bertram, 158 Blyth-st., E. Brunswick
3JM	X	R. W. Bryson, 149 Eglinton-st., Kew	3WG	X	W. R. Gronow, 12 Ackland-st., St. Kilda
3J0	X	C. L. Ruck, 3 Glentilt-rd., E. Malvern	3WH	X	W. L. Bertram, 158 Blyth-st., E. Brunswick W. R. Gronow, 12 Ackland-st., St. Kilda A. W. H. Chandler, "Cliff's House," Beach-
3JP	X	R. W. Bryson, 149 Eglinton-st., Kew C. L. Ruck, 3 Glentilt-rd., E. Malvern H. E. M. Michell, "Glenard," Kean-street,			road, Beaumaris
		Caulfield	3WI	X	W. I. A., Victoria Division, Ashburton
3JS	X	I. Schultze, Glenferrie (24 Vork-st.)	3WJ	X	W. I. A., Victoria Division, Ashburton S. M. Sandford, "Rostin," Welch-st.,
3J W	Y	J. Schultze, Glenferrie (24 York-st.) R. W. Bruce, 87 Alma-road, Caulfield	0110	**	Kyneton
3JZ	Ÿ	R. P. Whalley, Cumnor, Myrtleford	3WM	X	W. J. M. McAuley, "Mia Mia," Union-st.,
	X	A I W Kicciels 7 McForland et Brancowiels	2 AA IAI	A	W. J. M. McAuley, "Mia Mia," Union-st.,
3KB	A	A. L. H. Kissick, 7 McFarland-st., Brunswick	OTTE	*	Brunswick
3KG	X	Radio Engineering Co., 101 Foam-st., Elwood	3WP	L	Wilson's Promontory Lighthouse
3KJ	X	W. E. C. Sawyer, Sunleigh Park, Hurstbridge	3WR	D	Wangaratta Sports Depot
3KM	X	Kerr & Muir, 241 Bay-st., North Brighton	3WS	X	W. M. Sweeney, 10 Foam-street, Elwood
3KN	X	Kerr & Muir, 241 Bay-st., North Brighton R. A. A. F., Victoria Barracks, St. Kilda-rd.,	3XC	X	Xavier College, Kew
		Melbourne	3XF	X	W. M. Sweeney, 10 Foam-street, Elwood Xavier College, Kew M. Chaffer, 41 Norwood Crescent, Moonee
3KR	X	K. R. Rankin, Boundary-st., Kerang, Vic. H. C. McCalman, "Ivanhoe," Dryden-st.,	1		Ponds
3KX	X	H. C. McCalman, "Ivanhoe," Dryden-st.,	3X0	X	F. J. Adams, "Bambra," Moule Avenue, Middle Brighton
	THE REAL PROPERTY.	Canterbury Deal Island, Lighthouse			Middle Brighton
3LD	L	Deal Island, Lighthouse	3XW	X	C. A. Cullinan Bayview Digger's Rest
3LF	x	I F T Baker 82 Beavis-rd Northcote	SVX	X	C. A. Cullinan, Bayview, Digger's Rest B. Hardie, Missouri-av., Garden Vale
3LG	X	J. F. T. Baker, 82 Beavis-rd., Northcote L. G. Glew, 73 Elphin-st., Newport	3YX 3YY	X	A. M. Bush, 54 Brougham-st., Bendigo
3LJ	v	I I Simmone State School Foster N	9V7	v	A Mckayer 54 Vorre et Alphington
	X	I. A. David 197 Ct. Common and N. Eiterey	3YZ 3ZH	X	Police Petral Car No. 9
3LP	X	L. J. Simmons, State School, Foster N. L. A. Paul, 137 St. George's-rd., N. Fitzroy Elsternwick Radio Club, A.N.A. Hall,	OZM	X	A. McKeown, 54 Yarra-st., Alphington Police Patrol Car No. 2 F. R. Bradley, "Worthing," Beach Crescent,
3LR	X	Elsternwick Radio Club, A.N.A. Hall,	3ZK	X	F. R. Bradley, Wortning, Beach Crescent,
0.7.0	37	Regent-street, Elsternwick. R. T. Busch, 20 Wordsworth-st., Moonee	OFF	W	Sandringham "Ct. time to Brown de
3LS	X	R. I. Busch, 20 Wordsworth-st., Moonee	3ZN	X	M. Israel, "Atossa," Station-st., Burwood L. Snaith, 1 Byron-st., Footscray
OT W	X	Ponds	3ZR 3ZY	X	M. Ireson, 576 Drummond-st., South Yarra
3LW	27	C. Hiam, 222 Carlisle-st., St. Kilda	021	AL	m. Heson, 570 Didininond-st., South Taira
3MA	-	Queen-street	321	-	m. Heson, 570 Diummond-st., South Tarra
3MA 3MB	•	Queen-street Ballan	321	•	m. Heson, 570 Didminona-st., South Faira
3MA 3MB 3MC	•	Queen-street Ballan Rockbank Amal. Wireless Stations	321	A	
3MA 3MB 3MC 3MD	•	Queen-street Ballan Rockbank Portable	321	*	QUEENSLAND.
3MA 3MB 3MC 3MD 3ME		Queen-street Ballan Rockbank Portable Braybrook Amal. Wireless Stations			QUEENSLAND.
3MA 3MB 3MC 3MD	x	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road	4AB	x	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsyille
3MA 3MB 3MC 3MD 3ME 3MH	x	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road	4AB 4AC	XX	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsyille
3MA 3MB 3MC 3MD 3ME		Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road, Moonee Ponds J. R. Alsop, "Nirvana," 28 Molesworth-st.,	4AB 4AC 4AK	XX	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsville A. C. Walker, Oxford-st., Sandgate I. Milner, Woodland-st. Asherove. Brisbane
3MA 3MB 3MC 3MD 3ME 3MH	x	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road, Moonee Ponds J. R. Alsop, "Nirvana," 28 Molesworth-st., Kew	4AB 4AC 4AK 4AN	X X X X	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsville A. C. Walker, Oxford-st., Sandgate J. Milner, Woodland-st., Ashgrove, Brisbane W. L. Gibson, Kirkland-av., Greenslopes
3MA 3MB 3MC 3MD 3ME 3MH	XXX	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road, Moonee Ponds J. R. Alsop, "Nirvana," 28 Molesworth-st., Kew I. F. Martin, 17 Newry-st., North Fitzroy	4AB 4AC 4AK 4AN 4AT	X X X X X	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsville A. C. Walker, Oxford-st., Sandgate J. Milner, Woodland-st., Ashgrove, Brisbane W. L. Gibson, Kirkland-av., Greenslopes A. Bauer, "Banerville," Rose-st., Annesley
3MA 3MB 3MC 3MD 3ME 3MH 3MI 3MI	XXXX	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road, Moonee Ponds J. R. Alsop, "Nirvana," 28 Molesworth-st., Kew J. F. Martin, 17 Newry-st., North Fitzroy B. Pringle, 29 Collins st., Essendon	4AB 4AC 4AK 4AN	X X X X	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsville A. C. Walker, Oxford-st., Sandgate J. Milner, Woodland-st., Ashgrove, Brisbane W. L. Gibson, Kirkland-av., Greenslopes A. Bauer, "Banerville," Rose-st., Annesley A. E. Walz, cnr. Eton-st. and Sandgate-rd.,
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3MA 3MB 3MC 3MD 3ME 3MI 3MI 3MI 3MMP 3MS 3MY 3ND 3ND 3ND 3ND 3PD 3PD 3PL 3RB 3RB 3RB 3RB 3RB 3RB 3RB 3RB	X X X X X X X X X X X X X X X X X X X	Queen-street Ballan Rockbank Portable Braybrook M. H. Stuart, 571 Mt. Alexander-road, Moonee Ponds J. R. Alsop, "Nirvana," 28 Molesworth-st., Kew J. F. Martin, 17 Newry-st., North Fitzroy B. Pringle, 29 Collins st., Essendon S. V. Hosken, Queen-street, Surrey Hills L. J. Moore, "Avalon," Railway Grove, Seymour L. D. Money, 8 Maling-rd, Canterbury Police Patrol Car No. 1 H. R. Brown, Yanac R. M. Cameron, "Manuka," Coonil Crescent, Malvern Police Department (Headquarters), Russel- street, Melbourne V. L. Smyth, 130 McIvor-st., Bendigo L. P. Learmouth, McIntyre-st., Hamilton N. S. Taylor, 24 Dalgety-st., St. Kilda J. F. Feldman, Forest-st., S. Geelong R. A. Parker, c/o. Royal Bank, Bendigo R. N. Buzacott, 532 New-st., Elsternwick Railways Inst., Wireless Club, Flinders-st., Melbourne T. E. Evans, 21 Brunswick-rd, E. Brunswick R. Lighton "Nothgil," 232 Alma-rd., East St. Kilda Northcote Radio Club, 82 Gooch-street, Thornbury R. L. Payne, 39 Retreat-rd., Geelong R. C. Shortell, 421 Inkerman-st., St. Kilda R. B. Wookey, 158 Kilgour-st. Geelong G. G. Soilleux, Yacht "Utiekah 111," Port Phillip Bay L. R. Simpson, "Montana," Queen-street,	4AB 4AC 4AK 4AN 4AT 4AW 4AZ 4BD 4BM 4BY 4CF 4CG 4CK 4CM 4CP 4CR 4CS 4CU 4CW 4DA 4DC 4DC 4DC 4EC 4EG 4EI	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	QUEENSLAND.  W. F. Bardin, McIlwraith-st., S. Townsville A. C. Walker, Oxford-st., Sandgate J. Milner, Woodland-st., Ashgrove, Brisbane W. L. Gibson, Kirkland-av., Greenslopes A. Bauer, "Banerville," Rose-st., Annesley A. E. Walz, err. Eton-st. and Sandgate-rd., Nundah F. V. Sharpe, "Ashton Hall," Old Sandgate-road, Wooloowin B. D. Grimes, Tarragindi-rd., Annesley A. B. Milne, Mackay (Milrose Motors) E. R. Cooling, Donation Lane, Toowoomba H. W. Berry, 101 Flight R. A. A. F., Bowen A. Cooper, Lloyd-st., Mareeba C. Fortescue, "Matlock," Arthur-street, Toowoomba C. H. Gold, Drake-st., Hill End, Brisbane E. L. Norris, "Parkview," Hume-st., Toowoomba Dr. V. McDowall, Observatory Tower, Wickham Park C. R. Pinney, Konedobu, Port Moresby, Papua J. Geraghty, Christian Brothers' College, Toowoomba C. Walker, Devonport-st., Clifton. A. T. Buck, Geebung, North Coast Line E. Eggleton, Grenier-st., Toowoomba D. F. Cribb, Foxton-st., Indooroopilly H. L. Hobler, 8 Lennov-st., Rockhampton E. E. Sims, R.A.A.F., Bowen E. E. Gold. Lindsay-st., Toowoomba State Engineer, General Post Office, Brisbane

Call

#### Australian Radio Call Signs-Continued

Call			Call		
Sign.	Clas	ss. Name and Address.	Sign.	Cla	ss. Name and Address.
4FK	X	V. F. Kenna, "The Laurels," Allen-street,	5BY	X	D. E. Whitburn, cnr. Cudmore and Sprod-
400	v	Hamilton, Brisbane	ECM	v	avenues, Toorak Gardens
4G0	X	G. Oxlade, cnr. Badger-av. and Irving-st., Newmarket	5CM 5DA	X	R. M. Anthony, 3 High-st., Unley Park S. R. Buckerfield, 4 Regent-st., Parkside
4GR	X	Gold Radio Service, Lindsay-st., Toowoomba	5DP	X	H. E. Brock, 14 Cambridge Terrace, Malvern
4HB	X	H. E. Baker, Gowrie Station, Charleville	5DX	X	D. G. Taylor, 67 Victoria-st., Forestville
4HG	X	H. G. Bell, "Roseberry," Sandford-rd.	5GB	D	G. Bailey, Mount Gambier
	**	South Toowong	5HG	X	H. M. Cooper, 51 Hastings-st., Glenelg
4HL 4HM	X	H. L. Miller, Lloyd-st., Coorparoo H. L. Milburn, 10th Street, Home Hill.	5HP	X	Hyde Park Radio Club, 18 Commercial-rd., Hyde Park
4HW		H. D. Walsh, "Vailima," Toorak Hill,	5HY	X	A. A. Cotton, Harvey-st., Kilkenny
		Hamilton	5JA	X	P. J. Brewer, 21 Douglas-st., Parkside
4JG	X	C. J. Grant, cnr. Victoria Parade and Old	5JH	X	V. Chennell, 53 Osmond Terrace
ATT	*	Sandgate-road, Wooloowin	5JL	X	J. Henry, Ware Hill Station, via Katherine
4JJ	L	Orioms Oil Ltd., Papua (350 George-street, Sydney)	5KW 5LA	X	K. Wadham, 2 Elizabeth-st., Parkside L. M. Atkins, Brougham-st., Magill
4KR	X	J. K. Richardson, Ascot Downs, Barcaldine	5LF	X	L. F. Sawford, Mead-st., Peterhead
4KY	X	H. J. Coffey, 6 Oxford-st., Hamilton	5LH	X	L. H. Northeast, Addison-rd., Rosewater
4LG	X	S. W. Le Grand, 7th Avenue, Windsor,	5LP	D	A. L. Perry, Strathalbyn (Star Engineering
4LJ	X	Brisbane L. J. Feenaghty, Dickson-st., Wooloowin	5 MA	X	Works) M. B. Anderson, Torrens-rd., Cheltenham
4MC	X	M. J. McPherson, Merinda, via Bowen	5MB	X	H. M. Brown, 24 Northcote-st., Torrensville
4MF	X	D. C. Winterford, "Morlancourt," Collins-	5MU	X	South Australian Railway Institute, Murray
1		st., Annesley S., Brisbane	2000		Bridge Division, Railway Superintend-
4 M M	X	M. M. O'Brien, Fewings-st., Toowong	5PM	v	ent's Office
4NW	X	T. W. Starkie, "Pendarves," Sandgate-rd., Nundah	5PR	X	J. E. Vardon, 11 Belle Vue Place, Unley Park Port Radio Club, Hadgeman-rd., Pennington
4PG	X	P. J. Golden, "Ben My Chree," Waterview-	5QP	X	K. M. Theel, 81 First-av., St. Peters
		avenue, Wynnum	5RB	X	R. Bedford, Kyancutta Cottage Hospital,
4PJ	X	P. F. Jessop, Kamma, near Edmonton	EDG	v	Kyancutta
4RB	X	R. J. Browne, "Clifden," Church-street,	5RG	X	R. G. Gurner, 220 Glen Osmond-street, Fullarton Estate
4RG	X	H. J. Stephenson, Thorold-st., Wooloowin	5RI	X	South Australian Railway Institute, North
4RK	X	R. K. Knight, "Forest Lodge," Jellicoe-st.,	A Miles	Fig	Terrace Railway Station, Adelaide
		Toowoomba	5RJ	X	D. N. Hancock, 14 Railway Terrace, Kadina
4RP 4SM	D	Robertson & Provan Ltd., Toowoomba W. G. Ikin, River-rd., New Farm, Brisbane	5RM 5SA	X	R. M. Barker, 49 Newbon-st., Prospect E. R. Turner, 10 Godfrey Terrace, Leabrook
4SR	Î	Waitara Oil Co. Ltd., Sepik-rd., Papua	5SF	X	S. G. Ackland, 74 John's-road, Prospect
4TC	X	Toombul Radio Club, cnr. Eton-st. and	5SL	X	L. Fielder, Claire-street, Woodville
	- 000	Sandgate-rd., Nundah	5SR	X	South Suburban Radio Club, Castle-street,
4WA	X	W. A. Young, Granville-st., West End, Brisbane	5WA	x	Parkside W. K. Adamson, 25 Olive et Parkside
4WB	X	W. H. Bright, Hume-st., Nth. Toowoomba	5WH	x	W. K. Adamson, 25 Olive-st., Parkside W. H. Barber, 50 Somerset-av., Cumberland
4WE	x	W. E. Vining, Brickland-rd., Nundah	5WI	X	Wireless Institute of Australia (S. A.
4WF	X	W. E. Vining, Brickland-rd., Nundah W. Finney, "Milbong," Arthur Terrace,			Division), 6 Bakewell-rd., St. Peters
4 31777	v	Red Hill, Brisbane	5WP		S. Pitchford, 318 Wakefield-st., Adelaide
4WH 4WI	X	W. E. Hagarty, Kingfisher-st., Longreach W. I. A. (Queensland Division), Queen-st.,	5WS	X	West Suburban Radio Club, 44 King-st. Mile End
7 111		Brisbane	5XG	X	K. J. Nalpas, 13 Lipson-avenue, Kadina
4WN	X	Wooloowin Radio Club, c/o. F. J. Thomas,		36	
4 111	-	Willmington-street, Wooloowin			
4WR	D	H. D. Walsh, Dickson Terrace, Hamilton W. F. Scott, 229 Boundary-st., West End,			
7 W 5	^	Brisbane			WESTERN AUSTRALIA.
4YN	D	D. J. Harkin, 101 Flight R.A.A.F., Bowen	Sign,	Class	s. Name and Address.
			Digit.	vids	s. Ivalite and Address.

	-	D T TT III AND DULL D I A D D			
4YN	D	D. J. Harkin, 101 Flight R.A.A.F., Bowen	Sign	Class	. Name and Address.
			6AB		C. Cecil, 162 Central Ave., Marylands
			6AG	X	W. E. Coxon, 5th Avenue, Inglewood
			6AK	X	University of W.A., Perth
		SOUTH AUSTRALIA.	6BB	X	J. C. W. Park, 29 Suburban-road, Mill Point,
		SOUTH AUSTRALIA.	- 100000		S. Perth
Call			6BH	X	F. H. Burrows, Government School, E.
Sign.	Clas	ss. Name and Address.	10.30		Kalgoorlie
5AC	X	V. R. P. Cook, 37 John's-rd., Prospect	6BN	X	A. E. Stevens, 7 Ruth-street, Perth
5AE	X	J. M. Honner, Alpha-rd., Prospect	6B0	X	A, E. Gray, Archdeacon-street, Nedlands
5AG	X	W. J. Bland, Buller Terrace, Alberton	6BW	X	C. D. McLauchlan, 14 Clydesdale st., Victoria
5AH	X	F. L. Williamson, 25 Dequetville Terrace,			Park
		Kent Town	6CJ	X	E. J. Darley, Darley-st., Perth.
5AM	X	P. Kennedy, State Engineer's Office, G.P.O.,	6DA	X	F. W. Saw, 76 Leonard-st., Victoria Park
OTTAIL	-	Adelaide	6DH	X	D. C. Hardisty, 2 Duncan-st., Victoria Park
5AQ	X	Sacred Heart College, Glenelg	6DW		D. W. Edgar, Glentromie, New Norcia
5AW	X	A. W. Kelly, c/o. Lyndale Winery, Lyndoch	6DZ	x	E. W. Burrows, Station House, Geraldton
5AX	x	A. H. Traeger, Brigalow-av., Kensington	6GB	X	G. B. Sutherland, 36 Fairfield-st., Mt.
DMA	^	Gardens	dub	^	Hawthorn, Perth
EDD	v		COM	v	
5BD	X	F. E. Earle, 6 Hakewell-road, St. Peters	6GM	X	G. A. Moss, Willis-st., Cottesloe Beach
5BF	X	F. G. Miller, Eleanor Terrace, Murray Bridge	6HB	X	H. B. Johnston, 119 Bourke-st., Leederville
5BG	X	H. A. Kauper, 6 Rothbury-av., Tusmore	6HE	X	H. E. Cox, Marine Terrace West, Geraldton
5BJ	X	R. A. Bruce, 1 Henry-st., Glenelg	6JJ	X	T. J. Jewell, Leithfield-st., Victoria Park
5BN	X	H. L. Austin, 8 Parade, Norwood	6JL	X	J. L. White, Brooklands, via Grass Valleys
5BP	X	R. B. Caldwell, 53 Hughes-st., Unley	6KM	X	A. Saar, Post Office Buildings, Eucla
5BR	X	Blackwood Radio Club, Waite-street,	6KX	X	H. T. Simmons 34 First Avenue, Inglewood
		Blackwood	6LS	X	L. Symonds, Clyde-st., Cottesloe Beach
5BW	X	J. G. Phillips, 31 Partridge-st., Glenelg	6LT	X	L. L. Throssell, May-st., Northam
5BX	X	A. L. Saunders, 17 Esplanade, Glenelg	6MC	X	M. C. Hoad, 154 Gloucester-st., Subjace

1	-all	Call		
	Sign. Class. Name and Address.	Sign.	Clas	ss. Name and Address.
-	BMU X M. S. Urguhart, Hawkestone-st., Cottesloe	7CH	x	C. Harrison, Rokeby-rd., Bellerive
-	BPL X P E. C. Lindsay, 16 Clive-st., West Perth	7CS	X	A C. Scott, 14 Law-st., Launceston
1	3SA X S. C. Austin, 39 Sussex-st., Victoria Park	7CW	x	C. Walch, 36 Bath-st., Battery Point,
(	SSR X Subiaco Radio Society, Fire Station, Rokely			Hobart
	Rd., Subiaco.	7DX	X	W. T. Watkins, 146 Warwick-st., Hobart
-	BVK X J. Vincent, 124 Varden-st., Kalgoorlie	7GD	X	G. A. Douglas, Lochleven, Gormanstown
1	BVP X Victoria Park Rado Club (O. E. Kemich),	7GH	X	
	12 Fremantle-road, S. Perth	. 7HL		Hubert F. Lovett, 14 Summerhill-rd., West
-	SWP X W. R. Phipps, 83 Carnarvon-st., Victoria		**	Hobart
	Park	7HR	X	Hobart Radio Research Club, 57 Elizabeth
		La Lillian		Street, Hobart
	Total College	7JK	X	J. F. Heine, 305 Elizabeth-st., Hobart
	Tentral toward main west V is the	7LA	X	L. A. Hope, 210 George-st., Launceston
	TASMANIA.	7LJ	X	
- 3	Call	7MK		E. E. Cooper, Edgly House, Youngtown

Sign.	Class.	Name and Address.
7AB	X	A. C. Smith, 21 High-st., Launceston
7AH	X	F. W. Medhurst, Beach-rd., Lower Sandy Bay
7AR	X	C. F. Johnson, "Huendon," Ryde-street, W.
		Hobart
7AS	X	A. S. Gill, 17 Frankland-street, Launceston
7BK	X	T. A C. Preston, King-street, Queenstown
7BQ	X	L. J. Crooks, 64 Frederick-st, Launceston
7BT	X	E. C. Sheldrick, 15 Richards-av., Launceston

E. E. Cooper, Edgly House, Youngtown National Portland Cement Co., Maria Island N. W. Gillham, 38 Grosvenor-st., Sandy Bay R. D. O'May, Esplanade, Bellerive P. Oakley Fysh, 46 Mary-st., Launceston R. S. Hope, 210 George-st., Launceston Wireless Inst. of Aust., 181 Charles-street, Launceston. G. W. Steane, c/o Messrs. Knight & Peters,

128 Brisbane-street, Launceston

#### Broadcasting Stations in New Zealand

1YA	The Radio Broadcasting Co. of N.Z. Ltd., Auckland	 	333	meters	3	500	watts
1ZB	La Gloria Gramophone Co., Karangahape Road, Auckland	 	275	,,		50	,,
	L. R. E. Keith, Gordon Road, Mt. Albert, Auckland	 	330	"		50	17
	The Radio Broadcasting Co. of N.Z. Ltd., Wellington	 	420	"		3,000	"
2ZF	The Palmerston North Radio Club, The Square, Palmerston North		230	"		50	"
2ZM	The Gisborne Radio Co., 7 Wainui Road, Gisborne	 	260	"		500	,,
3YA	The Radio Broadcasting Co. of N.Z. Ltd., Christchurch	 	306	***		500	"
4YA	The Radio Broadcasting Co. of N.Z. Ltd., Dunedin	 	463	,,		750	"

#### List of New Zealand Amateur Transmitting

	Stat	ions	
Call Sign. 1AB	Name and Address. Waite, S. G., 54 Marlborough-st., Dominion-rd.,	Call Sign. 1FH	Name and Address. Steel, J. M. M., 260 Balmoral-rd., Edendale
1AF	Auckland Smithson, G. W., 39 Surrey-st., Ponsonby,	1FL	Auckland Liggins, J. B., Queen-street, Thames
1AG 1AH	Auckland. Roberts, F., 24 Kimberley-rd., Epsom, Auckland. Hartle & Gray Ltd., 7 Alken-rd., Auckland.	1FM	Warn, J. E. B., 19 Woodford-rd., Mt. Eden Auckland
1AI 1AJ	Sterling, H. H., 65 River-road, Hamilton Shepherd, N. C., 1 North's-road, Whangarei.	1FN 1FO	Stace, G. O. M., Stanley-road, Te Aroha Cooper, E R., 8 London-street, Ponsonby
1AK 1AL	Claxton, W. H., Parawai, Thames. Adair, B. R., Ponsonby, Auckland.	1FP 1FR	Auckland Anchor, J. L., 8 Queen's-av., Frankton Junction Gillies, R. H., 11 Avon-st., Parnell, Auckland
1AM 1AN 1AO	Isherwood, J. C., 17 Clyde-st., Whangarei Arthur, H. B. M., 9 Sentinel-road, Auckland White, R. G., Veronica-av., Mt. Albert, Auckland	1FS 1XI	Dickson, L. R., Buckland's Beach, Auckland Auckland University College, Princes-street
1AP 1AQ	Winch, A. J., Brady-st., Te Awamutu White Is. Products Ltd., Sulphur Pt., Tauranga	2AA	Auckland Brown, A. S., 14 Christian-st., Dannevirke.
1AT 1AU	Swain, G. S., Mahoe-st., Te Awamutu Aubin, R. E. L., 224 Manakau-rd., Parnell,	2AB 2AC 2AD	Wilkinson, D., 110 St. Hill-st., Wanganui O'Mears, I. H., 209 Harris-street, Gisborne Stevens, P. R., 4 Rutene-road, Gisborne
1AV 1AX	Auckland Reardon, F. C., 154a Hobson-st., Auckland Arbell, R. J., 15 Oxford Terrace, Cheltenham,	2AE 2AF	Patty, R. J., 37 Salisbury-road, Gisborne Sinclair, W. J., Score-road, Gisborne
1AY	Devonport, Auckland Woskett, H. C. A., Grey-av., Pukinui, Auckland	2AG 2AH	Strong, S. W. S., Harris-street, Gisborne Roberts, R. V., 11 May-av., Napier
1AZ	Sherson, J. R., 14 Stanley-street, Claudelands, Hamilton	2AJ 2AL 2AM	Parminter, V. H., 286 Cuba-st., Wellington Mellars, L. M., 112 Ridgeway-st., Wanganui Buist, W. F., Cnr. Collins and High-sts., Hawer.
1FB 1FC	West, G. R., White Island, Auckland Gulde, G. T., Hospital Hill, Opotiki Burrell, R. F. D., East Lake-road, Milford,	2AN 2AO	Weston, M. L., 47 Barraud-st., Dannevirke Brunnette, A. J., Hector-st., Seatoun, Wellington
1FD	Auckland Booth, F. R., 28 Rosstrevor-st., Hamilton	2AP 2AQ	Armstrong, J. L., Maungataniwha, Wairo Coutts, M. W., Kuku-st., Taihape
1FE 1FG	Wood, A. F., Waihou Lonsdale, J., "Heathdale," Maroheno	2AR 2AS	Rennie, A. M. M., 67 Campbell-st., Wanganui Boyle, H. R., 1 Breakwater-rd., Napier

Call		ı Call	
Sign.	Class. Name and Address.	Sign. Class. Name and Address.	
2AT	Halloran, A. T., 2 Hinau-rd., Hataitai, Wellingtou	3AL Dawson, W. M., 236 Willis-st., Ashburton	
2AU	Wilde, S. F. M., Manaore, Shannon	3AM Halcrow, L. A., 7 Tui-street, Fendalton, Christ-	
2AV	Chatfield, R. G., 42 Raroa-rd., Kelburn, Auckland	church	
2AX 2AY	Kyle, J. V., 50 Waldegrave-st., Palmerston North	3AN Edwards, S. St. D., 26 Patten-street, Avonside,	H
2AZ	Bitossi, 32 Devon-st., Wellington McDonald, H. L., 89 Hamilton-rd., Hataitai	Christchurch	
2BD	Cunningham, N. R., Public Trust Building,	3AP Cooper, A. McD., Willis-st., East Ashburton	
LDD	Masterton Masterton	3AQ Clark, R. H., 12 Cooper's-rd., Shirley, Christ-	
2BG	Tinney, J. G., 74 Kainui-rd., Hataitai, Wellington	church	
2BJ	Evans, A., 269 Taranaki-st., Wellington	3AR Buchanan, D. W., 74 Willis-st., Ashburton	
2BK	Hanson, L. A., 77 Linton-st., Palmerston South	3AT Marquet, L. J., 30 Chichester-street, Woolston,	
2BL	Wellington Coll. Radio Club, Wellington Boys'	Christchurch	
ODN	College, Wellington	3AU Hills, H. W., 97 White-street, Rangiora 3AV Willis, S. P., Ashburton	
2BN 2BP	Hislop, S. J. K., 8 Fitzroy-rd., Napier Macklin, W. N., 75 Waipapa-rd., Hataitai,	3AW Mintrom, R. W., 62 Barton-street, Woolston,	
2DF	Wellington Walpapa-id., Hataltal,	Christchurch	
2BQ	Edmundson, E. D., 8 May-av., Napier	3AX Twemlow, F. A., 119 Rossall-st., Christchurch	
2BR	Lambert, K. A., "Belmont," Tayforth, Wanganui	3CF Simpson, A. E. H., 99 Abberley-rd., St. Albans,	
2BS	Hunter, W. R., Barker's Hill, Gisborne	Chirstchurch	
2BT	Tanner, R. A., Karere-rd., Longburn	3CG Brown, H. P. V., 10 Merivale Lane, Christchurch	
2BV	Lane, F. J. K., 31 Manawatu-st., Palmerston	XA Rolleston House Society, Rolleston House,	
ODV	North	Rolleston-avenue, Christchurch  4AA Bell, F. D., Shag Valley Stn., Waihemo, Palmer-	
2BX 2GA	Black, R. G., 22 Stafford-st., Wellington	ston South	B
2GB	Johnson, J., Fortunatus-st., Brooklyn, Auckland Gribbon, C. W., 39 Devonport Bldgs., St. Aubyn-	4AC Robinson, R. E., 3 Cheltham-av., Dunedin	
LUD	street, New Plymouth.	4AD Jordan, A. E., 34 Bigger-st. Invercargill	
2GC	Howarth, A., 12 High-street, Dannevirke	4AE Brown, G. E., Ardwick-st., Gore	
2GG	Brown, C. H., 70 Wallace-st., Wellington	4AH MacDonald, J. S., 45 Royal Terrace, Dunedin	
2XA	Shrimpton, W. A., 38 Rongatai Terrace, Welling-	4AK Shiel, W. L., Macandrew-road, Dunedin	
0.0	ton	4AL Grubb, A. H. M., c/o. Miss F. Johnston, Gore	
3AC	Radio Society of Christchurch, Farmers' Sale- yards, St. Asaph-st., Christchurch.	4AN Partridge, L. O. B., 4 Islington-st., Dunedin 4AO Shrimpton, H. N., Coney Hill-road, Dunedin	
3AD	Fooks, A. C. L., Cnr. Parks and Peter-streets,	4AR Wilkinson, W. G., 21 Melrose-street, Roslyn	
OILD	Ashburton	Dunedin	10.
3AF	Ball, L. F., 210A Waltham-rd., Christchurch	4AT Stone, J., 34 Grove-street Dunedin	
3AH	Courtis, H. B., 69 Grey-road, Timaru	4AV Milnes, J. L., 39 Less-street, Dunedin	
3AI	Rangiora High School, East Belt, Rangiora	4AZ Sidney, T. K. S., 11 Corstorphine-road, Caver-	
3AJ	Blake, R. G. F., c/o. V. C. Hopkins, South Belt.	sham, Dunedin	
	Rangiora	4BA Smith, J. G., 7 Crosby-st., Mornington Gisborne	2
		TARREST TO THE RESERVE TO THE RESERV	

#### World List of Short Wave Stations

This list shows particulars of stations maintaining fairly regular schedules. It does not include several which are temporarily used for experiments.

		It does not include several tens	on are tempora	rity thoca j	or experimental
Wave-			Wave-		
length	Call	Station	length	Call	Station
(Metres)	Sign	Diam's	(Metres)	Sign	
12.25	AGA	Nauen	23.3	WBQ	Schenectady, N.Y.
13.5	AGA	Nauen	24.0	GBL	Leafield
14.09	NU-2XBC	Rocky Point, N.Y.	21.0	GBM	Leafield
14.28	F-FW	Ste. Assise	24.3	KFD	Denver, Colo.
	NU-2XS	Rocky Point, N.Y.	24.5	GLQ	Ongar
14.93			24.7	NKF	Bellevue, D.C.
15.0	GLS NU-2XAW	Ongar Schenectady, N.Y.	25.0	PCMM	The Hague
400			20.0	POY	Nauen
16.0	AGA	Nauen	おけるとしなら	HZA	Saigon
10.00	WSS	Rocky Point, N.Y.	25.5		Nauen
16.02	NU-2XT	Rocky Point, N.Y.		AGB	
16.57	WLL	Rocky Point, N.Y.	25.6	NKF	Bellevue, D.C.
17.0	SPI	Rio de Janeiro	25.728	VIZ	Melbourne (Beam Station)
	NKF	Bellevue, Anacostia, D.C.	25.906	GBH	Grimsby (Beam Station)
18.0	POF	Nauen	26.0	AGA	Nauen
20.0	AGK	Nauen	THE PERSON OF THE	VIS	Sydney, N.S.W.
	NAL	Navy Yard, Washington, D.C.		WNU	New Orleans, La.
	OCTN	Mourillon, Toulon	26.086	GBK	Bodmin (Beam Station)
	POX	Nauen	26.269	CG	Montreal (Beam Station)
	GFR	Flowerdown, Hants., R.F.A.	26.6	AGB	Nauen
	GLSQ	S.S. "Olympic"	27.0	PCPP	Kootwijk, Holland
	J-IPP	Tokyo		RCRL	Cent. Lab., Leningrad
20.8	NKF	Bellevue, Anacostia, D.C.	27.5	PCMM	Kootwijk, Holland
21.0	PCTT	Kootwijk, Holland	29.3	KEL	Bolinas, Calif.
21.4	WDJ	Harrison, Ohio	30.0	GBL	Leafield
21.48	WIK	New Brunswick, N.J.		GBM	Leafield
21.8	KEB	Los Angeles, Calif.	The state of the s	NU-2XI	Schenectady, N.Y.
22.0	VIS	Sydney, N.S.W.	30.2	PCJJ	Eindhoven, Holland
	VIT	Townsville, Oueensland	30.6	NAL	Navy Yard, Washington, D.C.
23.0	PKH	Soerabaja, Java	32.0	FL	Eiffel Tower
23,25	FFW	Sainte Assise		ANE	Malabar, Java
64485	4 4 11	hatfo Habias		-	4

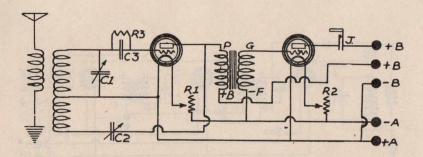
117					
Wave-	Call	Chatlan	Wave-		G: -:
length	Call	Station	length	Call	Station
(Metres)	Sig n		(Metres)	Sign	
	IDO	Rome	47.0	POZ	Nauen
	HVA	Hanoi, Fr. Indo China		ICX	Massawa
33.0	VIS	Sydney, N.S.W.	100000000000000000000000000000000000000	SPI	Rio de Ianeiro
33.0	OCDI	Issy les Moulins			
88.5	OCTN	Mourillon, Toulon	40 =	SUC2	Abu Zabal, Cairo
34.0	NAJ	S.S. "Sir James Clark Ross" Great Lakes, Ill.	49.5	KRP TFA	Salt Lake City, Utah Reykjavlk, Iceland
34.0			50.0		
35.0	XDA BWW	Mexico City, Mex.	30.0	OCTU WBZ	Tunis, La Casbah Springfield, Mass.
00.0	BXW	Gibraltar, N. Front Seletar, Singapore		SAJ	Karlsborg, Sweden
	BXY		51.0	AIN	Ain Bordja, C'ablanca.
	BYB	Stonecutters Island, Hong Kong	01.0	TSB	Norwegian s.s. "Helder"
	BYC	Whitehall, R.C. Horsea	51.5	WQN	Rocky Point, N.Y.
	BYZ	Rinella, Malta	01.0	VIS	Sydney, N.S.W.
	BZE	Matara, Ceylon	52.0	VAS	Louisburg, Nova Scotia
	BZF	Aden	072.0	WKK	Ceiba, Porto Rico
	VKQ	Garden Island, Sydney, N.S.W.	The state of	WGW	Viegues, Porto Rico
	NPM	Honolulu	53.0	ZWT	Bremerhaven
	J-IPP	Tokyo	00.0	NPU	Tutuila, Samoa
35.03	WQO	Rocky Point, N.Y.	54.0	NBA	Balboa, Canal Zone
36.0	PCMM	Kootwijk, Holland	54.4	NKF	Bellevue, Anacostia, D.C.
00.0	LPZ	Buenos Aires	54.5	WQN	Rocky Point, N.Y.
	OCRB	Rabat, Morocco	56.0	GBL	Leafield
36.8	NPM	Honolulu		GBM	Leafield
37.0	PCRR	Kootwijk, Holland		ANF	Malabar, Java
38.0	PCUU	The Hague, Holland		NU-1XAO	Belfast, Maine
	NU-2XI	Schenectady, N.Y.	57.0	OCTN	Mourillon, Toulon
39.0	OCMV	Mont Valerien	- CONTRACTOR	WQN	Rocky Point, N.Y.
40.0	NAJ	Great Lakes, Illinois	58.0	OCBV	Beyrouth
	NAS	Pensacola, Florida	58.79	KDKA	East Pittsburg, Pa.
	NOSU	Coco Solo, Panama	60.0	NU-1XAO	Belfast, Maine
AND REAL PROPERTY.	WNU	New Orleans, La.	61.0	NKF	Bellevue, Anacostia, D.C.
40.2	AGC	Nauen	65.5	NU-2XK	South Schenectady, N.Y.
40.5	J-1AA	Iwatsuki, Japan	67.0	NU-8XS	East Pittsburg, Pa.
41.5	OCBA	Bamako, Sudan	68.0	NPO	Cavite, Philippine Islands
41.6	NKF	Bellevue, Anacostia	70.5	NQG	San Diego, Calif.
41.95	FFW	Ste. Assise	70.54	WRP	Pinecrest, Florida
42.0	VIS	Sydney, N.S.W.		WFV	Poinciana, Florida
40.5	VIT	Townsville, Queensland	70.74	WRB	Miami, Florida
42.5	TFA	Reykjavik, Iceland	71.25	NKF	Bellevue, Anacostia
42.98	WIZ	New Brunswick, N.J.	74.0]	WIR	New Brunswick, N.J.
43.0	NPG	San Francisco, Calif.	75.0	F-8GB	Ste. Assise
44 00	JOC	Otchishi, Japan	1 3 mg 1 mg	WGN	Rocky Point, N.Y.
44.03	WAQ	Newark, N.J.	90.0	FL	Eiffel Tower
44.5	SPI	Rio de Janeiro	80.0	NEL	Lakehurst, N.J.
46.0	NPG	San Francisco, Calif. Mont. Valerien	84.0	RDW NKF	Moscow Bellevue, Anacostia
*0.0	PCLL	Kootwijk, Holland	90.0	KIO	Kahuhu, Hawaii
46.5	TSB	Norwegian s.s. "Helder"	100.0	NU-2X1	Schenectady, N.Y.
40.0	130	Not wegian s.s. Herder	100.0	NU-ZAI	Schenectady, N. I.

#### In Advance of N.S. Wales, Victoria, etc.

#### COMPARISON OF TIME Behind New South Wales, Victoria, etc.

New Zealand	N.S. Wales, Victoria, Queens- land, Tasmania	South Australia	Japan	Western Australia, China, Philippines	Central European (Malta, Germany, Switzer- land, etc.	Greenwich Time. (Great Britain, France, Belgium, Gibraltar, etc.)	Argentine	New York, Quebec, Jamaica, Peru	San Francisco, Vancouver
1.30 a.m.	Midn.	11.30 p.m.	11.0 p.m.	10.0 p.m.	3.0 p.m.	2.0 p.m.	10.0 a.m.	9.0 a.m.	6.0 a.m.
1.30 p.m.	Noon	11.30 a.m.	11.0 a.m.	10.0 a.m.	3.0 a.m.	2.0 a.m.	10.0 p.m.	9.0 p.m.	6.0 p.m.
7.30 p.m.	6.0 p.m.	5.30 p.m.	5.0 p.m.	4.0 p.m.	9.0 a.m.	8.0 a.m.	4.0 a.m.	3.0 a.m.	Midn. 7
8.30 p.m.	7.0 p.m.	6.30 p.m.	6.0 p.m.	5.0 p.m.	10.0 a.m.	9.0 a.m.	5.0 a.m.	4.0 a.m.	1.0 a.m.
9.30 p.m.	8.0 p.m.	7.30 p.m.	7.0 p.m.	6.0 p.m.	11.0 a.m.	10.0 a.m.	6.0 a.m.	5.0 a.m.	2.0 a.m.
10.30 p.m.	9.0 p.m.	8.30 p.m.	8.0 p.m.	7.0 p.m.	Noon	11.0 a.m.	7.0 a.m.	6.0 a.m.	3.0 a.m.
11.30 p.m.	10.0 p.m.	9.30 p.m.	9.0 p.m.	8.0 p.m.	1.0 p.m.	Noon	8.0 a.m.	7.0 a.m.	4.0 a.m.
12.30 a.m.	11.0 p.m.	10.30 p.m.	10.0 p.m.	9.0 p.m.	2.0 p.m.	1.0 p.m.	9.0 a.m.	8.0 a.m.	5.0 a.m.

#### 2-VALVE REINARTZ RECEIVER

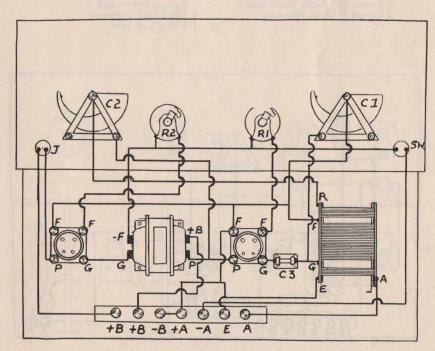


#### PARTS FOR THE 2-VALVE REINARTZ RECEIVER.

- 1 Panel 14 x 7 x 3/16
- 1 Emmco .0005 Variable Condenser C1
- 1 Emmco .00025 Variable Condenser C1
  1 Emmco .00025 Variable Condenser C2
  2 Emmco Vernier Dials
  1 Emmco 5-1 Audio Transformer
  2 Emmco Valve Sockets
  2 Emmco 30 Ohms. Rheostats

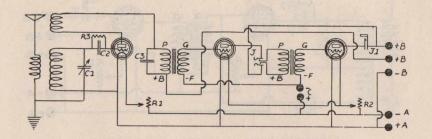
- 1 Emmco S.C. Jack
- 1 Emmco Battery Switch
- 1 Airzone Reinartz Tuner 1 Terminal Board
- 1 Baseboard, 13 x 9 x 3
- Busbar, Screws, etc.

  1.00025 Grid Condenser and Leak



Back Panel Diagram.

#### 3-VALVE SHORT WAVE RECEIVER



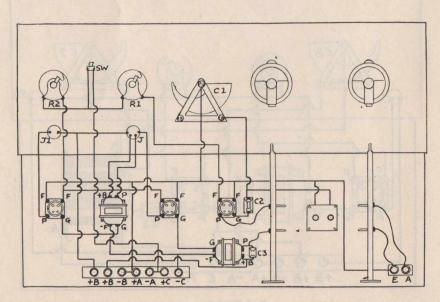
#### PARTS FOR THE 3-VALVE SHORT WAVE RECEIVER

- 1 Panel, 18 x 7 x 3/16 1 Emmco .0005 Variable Condenser

- Emmco Vernier Dial
   Emmco Back Panel Vernier Dials
   Pieces of ½ in. Bakelite Rod, 9 in. long
- 1 Rod supporting Back Panel, 6 x 5 x \(\frac{1}{8}\)
  1 Emmco 5-1 Audio Transformer
- 1 Emmco 3½-1 Audio Transformer
- 2 Emmco 30 Ohms. Rheostats

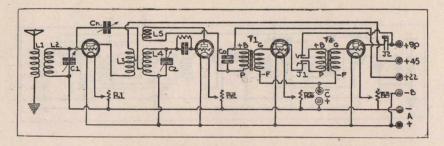
- 3 Emmco Valve Sockets

- 1 Emmco D.C. Jack 1 Emmco S.C. Jack 1 Emmco Battery Switch
- 1 Kit Short Wave Coils 1 Terminal Board
- 1] Baseboard, 17 x 9 x 3/4
- Busbars, Screws, etc. 1 1 .00025 Grid Condenser
- 1 3 Meg. Grid Leak



Back Panel Diagram.

#### BROWNING DRAKE RECEIVER

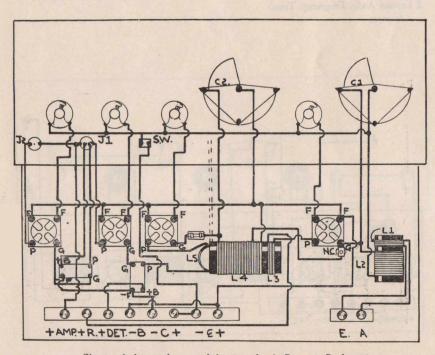


#### LIST OF PARTS FOR THE BROWNING DRAKE

- 1 Panel, 24in. x 3/16in.
- 2 .0005 Mfd. Emmco Variable Condensers. 4 30 Ohms, Emmco Rheostats.
- 1 Emmco D.C. Jack. 1 Emmco S.C. Jack. 1 Emmco Battery Switch.

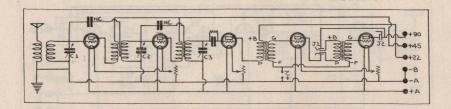
- 2 Emmco Vernier Dials.
- 4 Emmco Valve Sockets.
- 2 Emmco Audio Frequency Transformers.

- 1 .001 Fixed Condenser.
- 1 .00025 Fixed Grid Condenser with Clips.
- 1 2 Meg. Grid Leak.
- 1 Neutralizing Condenser. 8 Terminals on Terminal Board. 2 Terminals on Terminal Board.
- 1 Browning Drake Airzone Kit.
- 1 Baseboard, 23in. x 9in. x 3in.



Showing the layout of parts and the wiring for the Browning Drake

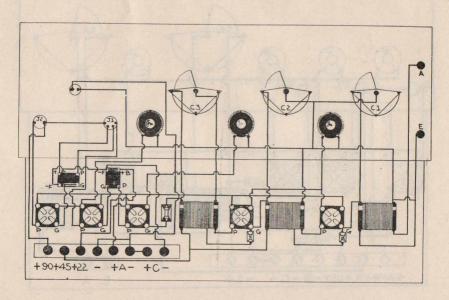
#### A FIVE-VALVE NEUTRODYNE



#### LIST OF PARTS FOR THE NEUTRODYNE SET

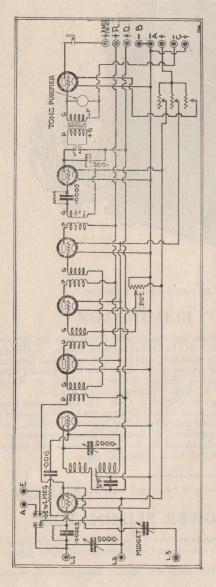
- 1 Panel, 26in. x 7in. x 3/16in.
- 3 .0005 Mfd. Emmco Variable Condensers.
- 3 30 Ohms. Emmco Rheostats.
- 1 Emmco D.C. Jack.
- 1 Emmco S.C. Jack.
- 1 Battery Switch.
- 3 Emmco Vernier Dials.
- 5 Emmco Valve Sockets.
- 2 Emmco Audio Frequency Transformers.

- 1 .00025 Fixed Grid Condenser with Clips.
- 1 3 Meg. Grid Leak.
- 9 3 Meg. Grid Leak.
- 2 Neutralizing Condensers.
- 8 Terminals on Terminal Board.
- 2 Ecs. Sockets and Plugs.
- 1 Airzone Neutroformer Kit.
- 1 Baseboard, 25in. x 9in. x 3in.



Showing the layout of parts and the wiring for the 5-Valve Neutrodyne.

## CIRCUIT SUPER-HETERODYNE EMMCO THE



# List of Parts for the Emmco Super-Heterodyne Receiver

.001 Fixed Condenser

0005 Mfd. Emmco Variable Condensers Bakeiite Panel, 24in. x 7in. x 3/16. 100 Ohms. Emmco Potentiometer 6 Ohms, Emmco Rheostats

Midget Condenser for Loop Reaction Maclurcan Tone Purifier

Emmco Battery Switch Emmco D.C. Jack Emmco S.C. Jack

Emmco Audio Frequency Transformer 50,000 Ohms, Resistance and Clips Emmco Valve Sockets. Emmco Vernier Dials .006 Fixed Condenser

1 Mfd, Fixed Condenser

2 Meg. Grid Leaks Terminals on Terminal Board for Batteries Ecs or Terminals on Terminal Board for 14 Brass or Nickel Wood Screws, Jin. x 6in. .00025 Fixed Grid Condensers and Clips Baseboard, 23in. x 12in. x 1in. Aerial and Loop

Intermediate Radio Frequency Transformers Emmco Super Heterodyne Kit, comprising: Aerial Coupling with base Oscillator Coil with base

Brass or Nickel Wood Screws, 14 in. x 6in.

8 Brass or Nickel Wood ? 24 2ft. lengths of Busbar

Tuned Radio Frequency Transformer (Filter)

EMMCO SUPER HET KIT Price, £7/7/-

With the Emmco Super Het Kit are supplied full size diagrams, blue prints and a book of instructions showing, in simple form, how to build this Receiver. Emmco Super Het Kits consists of Aerial Coupling Coil and Plugs, Three Intermediate Transformers, Filter and Oscillator; all perfectly matched and balanced.





Full Instructions are issued with every Emmco Eliminator.

#### EMMCO "B" ELIMINATOR

The EMMCO "B" Eliminator replaces "B" batteries and supplies plate current from the light socket. With the EMMCO "B" Eliminator there are no "B" batteries to charge or replace. Unfailing plate current is always available by merely turning on the household current. With its use your plate current never varies or is low, but is always exactly what is required, and it has no hum when properly installed. It keeps the "B" circuit always operating at maximum efficiency, the cost is negligible, and the saving on "B" battery bills will pay for an EMMCO "B" Battery Eliminator within two years. The EMMCO "B" Eliminator requires no changes or additions to a set. The binding posts provided

The EMMCO "B" Eliminator requires no changes or additions to a set. The binding posts provided are simply connected to the corresponding connections on the set. Once adjusted to the needs of your set, it requires no further adjustment. It may be used with either dull or bright emitter valves. It does away with the troubles of run-down or partially run-down "B" batteries. Arrange to see one at your Dealers. Manufactured in Australia, it is specially adapted for the varying current and voltages of Australian electric A.C. lighting mains. It rectifies both halves of the A.C. cycle.

#### PRICE .. .. £10/10/-

Eliminator Kit consisting of Transformer, two chokes in frame used in above. PRICE £4/10/-

#### EMMCO SUPER POWER ELIMINATOR

While the EMMCO "B" Battery Eliminator is satisfactory for the average set, certain multivalve sets, especially those using a power valve requiring 180 volts, demand an Eliminator with higher voltage and a greater milliamp output.

The EMMCO SUPER POWER "B" ELIMINATOR meets this demand, giving over twice the output of the regular "B" Battery Eliminator.

PRICE .. .. £12/12/-

Eliminator Kit used in above: Transformer, and two Chokes in separate aluminium frames. PRICE £6/10/-



#### EMMCO A.B.C. ELIMINATOR

To dispense with battery trouble and operate any radio receiving set direct from the house lighting mains is the aim of all radio manufacturers to-day. Electricity Meter Manufacturing Co. Ltd. of Sydney are the first concern to manufacture these high-class units in Australia. It is now possible with the Emmco A.B.C. Eliminator to dispense with the use of all batteries. The unit is simply plugged into the light socket, and clear, non-vibrating power is supplied for filaments, plates and bias with greater improved constant power. Adjustment of the A.B.C. is simple. There are certain fundamental changes necessary in the wiring of the receiver, but these are easily accomplished, and are fully explained in the diagrams on pages 16 and 17. Each instrument is supplied with complete wiring instructions, together with hints for best operation.

Emmco Laboratories have been working for many months perfecting this type of apparatus for Australian conditions. To develop a rectifier of sufficient capacity to carry the current necessary also necessitates the development of a heavy duty

filter together with its heavy duty resistance controls.

The Raytheon rectifying valves used will rectify enough current to operate any multivalve set. Not only does it supply the "B" battery current, but it also feeds the filaments and supplies the grid bias. Your total battery cost for the current consumed by an A.B.C. Eliminator will be less than a penny for a full evening's entertainment.

For those who desire to add an extra stage to their set, the EMMCO A.B.C. Eliminator may be obtained with a Power Valve Amplifying Unit, already incorporated in it. This consists of an Audio Transformer, a Valve Socket and a controlling Emmcostad, and the necessary extra tappings from the Power Transformer, all wired complete.

Tapping from the Power Transformer lights the Power Valve from the A.C.,

without passing through Raytheon Tube.

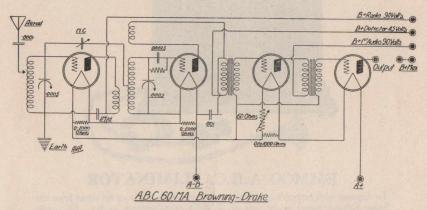
#### THE PRICE:

A SUPER POWER EMMCO A.B.C. is manufactured with a special high Outward Transformer for use with .25 (201 "A") type Valves, using the B.A. Raytheon type Tube, and giving a total output of over 300 milliamps at 180 volts.

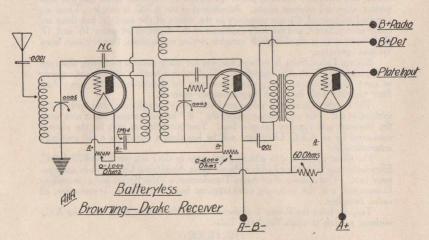
#### PRICE:



#### ADAPTATION TO USE A.B.C. ELIMINATOR with The Browning Drake Circuit



This circuit for use without Power Amplifying Unit.



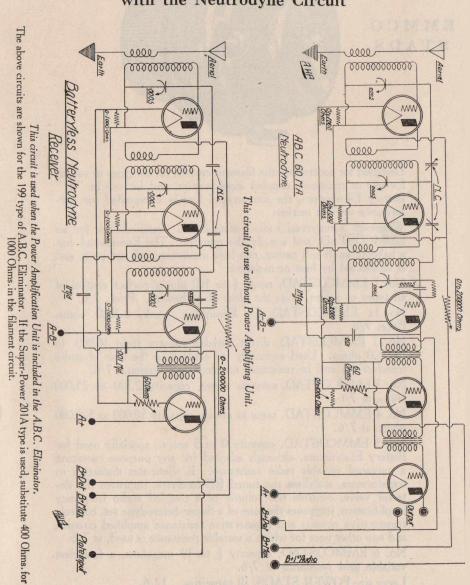
This circuit shows Power Amplifying Unit included in the A.B.C. Eliminator.

The above circuits are shown for the 199 type of A.B.C. Eliminator. If the Super-Power 201A type is used, substitute 400 Ohms. for 1000 Ohms. in the filament circuit.

Full instructions and diagrams of adaptation of the A.B.C. Eliminators to other standard circuits are furnished with either style of A.B.C. Eliminator, either with or without Power Amplifying Unit included in the A.B.C. Eliminator.

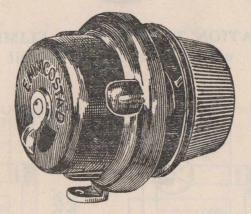


#### ADAPTATION TO USE A.B.C. ELIMINATOR with the Neutrodyne Circuit



## Fmmeo\_ Fmmeo\_

#### EMMCO STADS



Designed for controlling the filament current for all types of valves, for use in resistance coupled amplification, and for use in "B" Battery Eliminators, the Emmcostad line is unequalled for performance on this market.

Whenever a universal radio resistance is required, ask for an EMMCOSTAD, and specify the number. The Emmcostad has a bakelite knob and casing, one hole mounting, will not pack, and is unaffected by heat or moisture.

No. 1 EMMCOSTAD, range \( \frac{1}{4} \) to 100 ohms, perfect control of all types of valves, takes the place of a rheostat. Price, 7/6.

No. 1A EMMCOSTAD for Eliminator work, 0-2000 ohms. Price, 7/6.

No. 2 EMMCOSTAD, direct variable resistor from 10,000 to 100,000 ohms. Used especially for controlling the tone of audio transformers and in resistance coupled amplification. 7/6.

No. 3 EMMCOSTAD, same as above, capacity 2,500 to 25,000 ohms, at 7/6.

No. 4 EMMCOSTAD, same as above, capacity 50,000 to 500,000 ohms, at 7/6.

No. 5 EMMCOSTAD, capacity 0 to 5 megs., specially used for Battery Eliminators, although adapted for any purpose requiring a universal variable radio resistance. It eliminates distortion in transformers, stabilises the tuned RF receivers, improves the detector valve, controls the volume of a coupled audio frequency amplification, improves the tone of a Super-heterodyne set, controls regenerative circuits and regenerative resistance amplified circuits, and any other uses for which a variable resistance is used, at 7/6.

No. 6 EMMCOSTAD, capacity  $\frac{1}{4}$  to 10 megohms, a first-class variable grid resistance at 7/6.

Large size POWER STADS, all capacities. 12/6.





#### "EMMCO" BATTERY CHARGER

No Acid

No Noise

Made for A. C. Current only 220/240 Volts, also for 200/220 Volts.

Highly efficient, compact, durable, *silent* in operation, and low in first cost. The Emmco Battery Charger replaces, both in price and performance, most of the types which are now on the market. The well-known Raytheon Cartridge is employed; no valves.

The Emmco Charger is simply plugged into the light socket, the leads of the charger attached to the battery terminals, and, when the current is switched on there is an even flow into the battery, thus ensuring a constant operating potential, and an immunity from periodical and expensive recharging at a service station. The saving in recharging costs alone quickly repays the initial outlay on the charger. Nothing to get out of order. All live elements enclosed in a strong, insulated case. Made in two capacities, both chargers have tappings for charging either four or six volt batteries.

Attractive casing, Aluminium base, Bakelite top.

Full Instructions with each Charger.

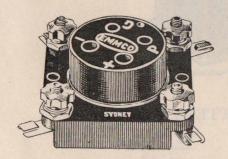
#### PRICE:

Complete with Cord and Adapter,  $2\frac{1}{2}$  amps . . . £4 15 0 £7 7 0

Will charge any capacity 4 or 6 volt accumulator.

## \_Fmmco\_\_Fmmco\_\_

#### EMMCO SOCKETS



#### EMMCO BALANCED SOCKET

An entirely new departure in the push type valve socket design. The valve pins fit easily into the socket, and are gripped tightly, thus ensuring positive contact. The natural balance of the socket absorbs any jarring, so that microphonic noises are entirely eliminated. Has both terminals and soldering lugs.

PRICE 3/6

#### EMMCO SUB-PANEL SOCKET

The Emmco Sub-Panel Socket is finished throughout in high grade bakelite, and is easily fixed to the sub-panel. Especially recommended for radio set manufacturers. To the valve pins are fixed four full length extensions, so prepared as to permit the easy soldering of bus bar or flexible leads.

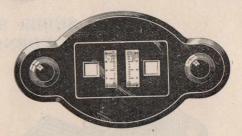
PRICE 2/9



## Fmmeo Fmmeo







Two Dial Control.

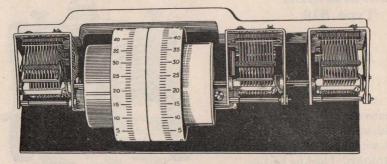
#### EMMCO DRUM CONTROL CHASSES

#### EITHER SINGLE OR DOUBLE STYLE

THE EMMCO DRUM CONTROL has been designed and perfected by the Radio Engineers of the Electricity Meter Manufacturing Co. Ltd. after six months' extensive research to overcome the defects common in imported articles of the same nature. The drum controls for the Emmco Stratelyne Condensers project through a single opening in the front panel, and each drum contains an indicating strip for calibration purposes. The tuning is a vernier drive, with a separate adjustment for each condenser. The individual condensers are matched, thus providing for properly-balanced tuning control and the most satisfactory distribution of stations.

The handsome embossed bakelite face plate ready to be affixed on the face of any type of panel is provided. The condensers are mounted on a strong, rigid chasses, the cone bearings assuring perfect and permanent alignment. Convenient lugs are provided for the easy mounting of coils or the soldering of connections. The templates required are furnished for drilling out the holes for making openings for the drum. The Emmco single or two dial control tuning unit is adapted for use in any circuit, including the Solodyne. Beautifully finished and guaranteed not to get out of order. The most perfect unified control unit yet produced.

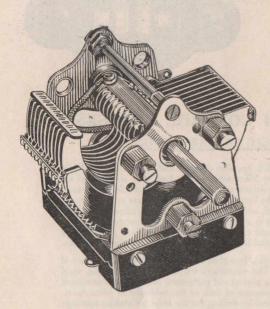
#### PRICE:



Back Panel View.



#### EMMCO SUPER STRATELYNE CONDENSER



The improved Condenser, with its cast Bakelite base and improved brass frame, gives absolutely correct minimum and maximum capacities. Perfect insulation, true alignment, easily adjustable brass frame, cutaway brass plates in both Stator and Rotor, pig tailed, and adaptable for either base or panel mounting adjustable cone bearings. The rotor plates are reversible, and can be used for either clockwise or anti-clockwise movement. It has also a hollow quarter-inch shaft interlocking, allowing tandem mounting of two or more condensers, or the substitution of one quarter-inch rod for one dial control sets.

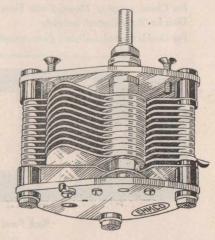
#### PRICES:

.0005 .. .. .. .. 12/6 .00025 and .00035 .. .. 12/–

EMMCO S.Q.L. CONDENSER Type 528

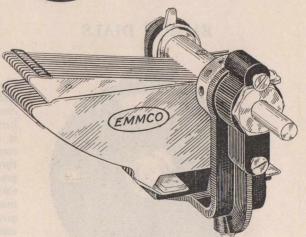
.00025 .. 13/6

Aluminium plates; perfect insulation; firm, even movement, without backlash. Rigid construction. Used by leading manufacturers.



## Fmmco Fmmco

EMMCO
DE LUXE
STRAIGHT LINE (FREQUENCY
CONDENSER
Type 535

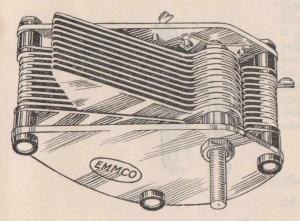


Bakelite moulded frame. Ball-bearing adjustment. Pigtail connection. Can be mounted in three ways—single hole fixing, two-hole, or baseboard mounting. Brass plated and sturdy construction.

#### PRICES:

.0005 .. 25/-.00035 .. 23/6 .00025 .. 22/6

#### EMMCO S.L.F. CONDENSER Type 530



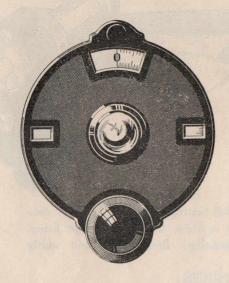
Aluminium Plates. Rugged construction. Ensures ultraselective tuning.

#### PRICES:

.0005 .. 12/6 .00035 .. 12/-

## Fmmco

#### EMMCO DIALS



#### EMMCO DIAL ILLUMINATOR

Built especially for bringing out the dial markings in sharp relief, this Dial Illuminator may be conveniently and easily adapted to any illuminated dial now on the market. finished in heavily nickelled metal immune from rust, and may be mounted to the panel with a one-hole fixing. A snap of the knob to left or right cuts on or off the bulb as required. Especially adapted for Emmco Dials.

#### PRICE 4/6

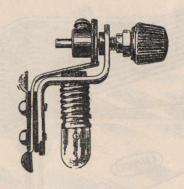
Complete with switch and bulb Bulbs only for Illuminator, 9d.

#### **EMMCO** DE LUXE VERNIER DIAL

Finished in black or mahogany, and with clockwise or anticlockwise movement, the Emmco De Luxe Vernier Dial is at the same time of solid construction, being finished throughout of lustrous highgrade bakelite. It possesses an easy, yet firm, vernier movement without jerkiness, and gives a steady, non-slip tuning control over the whole scale.

A feature of the dial is that its special construction eliminates hand capacity. In the logging windows may be written the call sign of the stations heard, so that a station once heard may be returned to again at any time without searching. Hair line adjustment and mounting.

> PRICE 9/6 Illuminated, 13/6



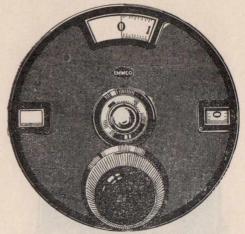


#### EMMCO DIALS

#### EMMCO VERNIER DIAL

This is a standard bakelite Dial of which over 100,000 are now in use throughout Australia. Logging windows to left and right. Hair line adjustment, easy mounting, accurate tuning. Absolutely no back lash. Finished in black or mahogany, clockwise or anti-clockwise movement.





Bakelite Frame, 7/6
Black or Mahogany Finish

Knobs, as used on Dials, Plain or Arrowed, Black or Mahogany, 1/-

#### EMMCO BACK PANEL DIAL

Many of the modern receivers embody back panel dials which show the projection of only one small knob through the front of the panel. The Emmco Back Panel Dial is supplied with a lustrous white bezel. Template and instructions furnished with every dial. Black bakelite knob. Vernier movement without slippage or back lash. Accurate tuning. Especially adapted for illumination.

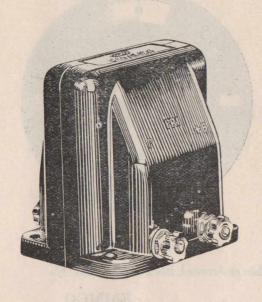
COMPLETE WITH BEZEL

#### PRICE 5/6

Same Dial with Illuminator, complete with switch and bulb,

10/-

## \_Fmmco\_\_\_Fmmco\_\_



#### CAVALIER TRANSFORMER

The Cavalier Transformer represents the last word in audio frequency transformers. It has an extremely high amplification factor, truly separating all notes throughout the musical register at either high or low frequencies without distortion. Terminals placed at base ensure easy wiring. The moulded bakelite case is finished in a deep brown, and its construction eliminates the possibility of moisture permeating to the inside windings. Over 18,000 turns of high grade enamelled wire in each transformer. Shielded core, perfectly insulated windings, and solid construction.

Ratios: 2-1,  $3\frac{1}{2}$ -1, and 5-1.

PRICE 21/-

#### EMMCO MIDGET TRANSFORMER

The Emmco Midget Transformer answers the requirements of all those who are seeking for an audio transformer with high efficiency, but low price. The Midget has a shielded core, perfectly insulated windings, and an attractive appearance. Especially recommended for use by radio set manufacturers.

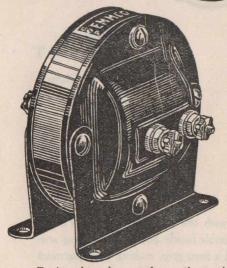
Ratios: 2-1, 3½-1, and 5-1.

PRICE 13/9



All Emmco Transformers are guaranteed,

#### Fmmco Fmmco



#### EMMCO TRANSFORMER

PRICE 17/6

Ratios 2 to 1 31 to 1 5 to 1  $7\frac{1}{2}$  to 1

**EMMCO** PUSH PULL TRANSFORMERS

63/- Pair

Designed and manufactured to the highest possible degree of electrical and engineering efficiency.

Amplifies music and speech without any of the distortion so frequently met with in other types. Guaranteed not to burn out.

#### **EMMCO** AUDIO CHOKE

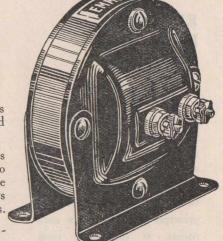
10, 20, 50 and 100 Henries

#### PRICE 21/-

The Choke Amplifier shows maximum purity of speech and music.

The Emmco Audio Choke is produced in a similar casing to the Transformer, and may be used in place of transformers in all audio frequency circuits.

The B.B. Eliminator Kits, consisting of Transformer, two

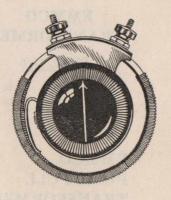


Chokes in frame as used in the Emmco B. Battery Eliminator.

#### PRICE £4/10/-

Kit used in Super Power Eliminator, Transformer, and two Chokes, in separate aluminium frames, £6/10/-.

## \_Fmmco\_\_Fmmco\_\_



#### EMMCO RHEOSTAT

6, 10, 20, 30 Ohms. PRICE 3/6

#### **POTENTIOMETERS**

in the same style, 400 Ohms 4/6

This Rheostat is constructed with the New Style Metal Frame, with a Bakelite Knob. The double inside grip of the sliding arm ensures continuous contact and a firm grip, making its adjustment even and sure the whole way round. Impossible to lose its adjustment. Air cooled, low loss.

Knobs, Black or Mahogany, Plain or Arrowed, 1/-.

#### EMMCO LIGHTNING ARRESTER

#### PRICE 2/6

A Lightning Arrester is a positive necessity for the adequate protection of any Radio Receiver. The Emmco Lightning Arrester is mounted on a bakelite base, and the gap principle prevents static corrosion, at the same time affording an easy path to earth for heavy static discharges.



An Insurance Policy is issued with each arrester, guaranteeing to replace any damage by lightning to the extent of £25.



#### EMMCO BATTERY SWITCH

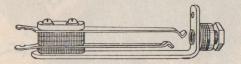
A neat little device which is adapted to all valve receivers. It is fixed with a one-hole mounting to the panel, and with one movement of the knob automatically cuts off or cuts on the filament current to the valves, thus obviating the necessity of disconnecting the battery leads from the set.



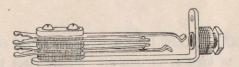
PRICE 2/6

#### **EMMCO JACKS**

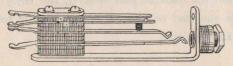
Nickel plated, silver contact points, separate frame, and easily accessible. Tinned coldering lugs. Spacing washers are provided for panels from  $\frac{1}{8}$  in. to  $\frac{1}{4}$  in. thick.



500 OPEN CIRCUIT JACK. PRICE 2/6



502 DOUBLE CIRCUIT JACK. PRICE 3/-



503 SINGLE FILAMENT JACK. PRICE 3/6

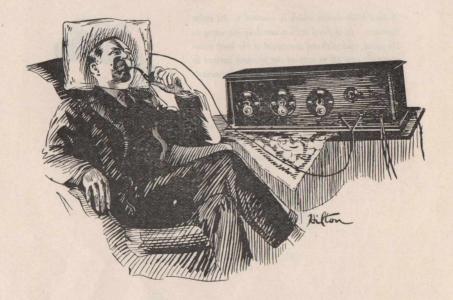


504 DOUBLE FILAMENT JACK.
PRICE 3/9

Phone and Speaker Tip Jacks, nickel plated, one hole mount, soldering lugs, positive contact. PER PAIR, 2/-



#### EMMCO PILLOW PHONE



THE EMMCO PILLOW PHONE supplies the need of all those who desire to listen-in in comfort. Simply place the Pillow Phone, fitted with its Emmco Unit, in the place of your favourite cushion, attach the leads to your receiver, and enjoy the broadcasting while you read or rest. The sweetness of tone and the volume will surprise you.

THE EMMCO PILLOW PHONE is supplied without cover

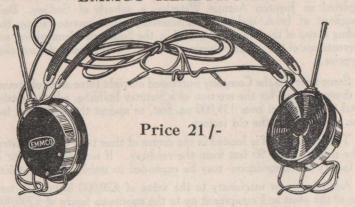
#### For 21/-

but covers in exquisite design and material are obtainable from dealers at prices ranging

From 4/6 to 21/-

## Fmmco\_Fmmco\_

#### EMMCO HEADPHONES



Every detail in these Headphones is manufactured to the highest standard of efficiency. A light spring head band, with sliding adjustment, on each earpiece, enables them to be worn with the utmost comfort.

A special ear vent on each bakelite cap allows for proper ventilation while the phones are being worn. These phones are more than equal to higher-priced imported headphones.

Guaranteed for one year against mechanical defects.

#### MACLURCAN TONE PURIFIER

As a Tone Purifier and Static Reducer the Maclurcan Tone Purifier has no equal on the market. Even the poorest receiver, with its harsh reproduction, can be converted into a mellow-toned, musical instrument.

The fitting of this Purifier is simplicity itself. It may be adapted to any set, and static trouble may be greatly reduced. The Maclurcan Tone Purifier is particularly useful in reducing interference from near-by electrical machinery, electric light mains, transformers, etc.





#### EMMCO'S PROGRESS

RICK by brick, and stone by stone, rearing its head high into the air, the colossal new building, housing the plant and employees of Electricity Meter Manufacturing Company Ltd., has just been completed in Joynton Avenue, Waterloo, a suburb of Sydney. Built throughout of brick and steel construction, with concrete facing, this building is one of the largest of its kind in the Southern Hemisphere, and represents one of the greatest reasons for the encouragement of Australian enterprise.

Some time ago the Company purchased outright three acres of ground and drew up plans for the erection of a 5-storey building, which contains a total floor space of over 135,000 sq. feet, as against the 36,000 sq. feet space comprised in the old factory.

The factory itself is located in the centre of their tract of land, distant at the nearest point 90 feet from the roadway. If necessity calls for it, the factory accommodation may be expanded to treble its present size.

Additional new machinery to the value of £20,000 brings the total value of the plant and equipment up to the enormous figure of £200,000, and it is estimated that the number of constantly-employed Australian workers now numbering 650 will shortly be increased to over 1,000.

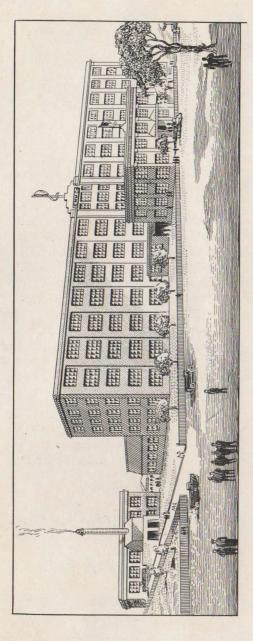
Amongst the separate industries fostered and carried on in this vast enterprise are represented many types of apparatus, the names of which are household words in Australia to-day. Under a variety of headings, the main ones may be listed as follows:—Electric Refrigerators, Radio Parts, Petrol Pumps, Electricity Meters, Magnetos, House Lighting Plant, fractional Horse-power Motors, Motor Car Accessories for Motor Car Electrical Equipment, and Bakelite Products in all forms.

Without exception, the demand for every one of these products is increasing at a rapid rate, and it may be mentioned that the bakelite plant in particular is being duplicated, and that the Company is also installing an up-to-date double action hydraulic bakelite press, allowing for the manufacture of intricate forms of bakelite work, including other products besides radio.

The Company has gone to no little trouble to ensure the health and satisfaction of its employees. On four sides the high steel frame windows admit of unlimited natural lighting. An up-to-date cafeteria will cater especially for the needs of employees.

Special pains have been taken in the Radio Manufacturing Section to ensure an uninterrupted output of the well-known standard Emmco lines, besides ample space and equipment for research and testing purposes for new parts which the Company always has in course of production.

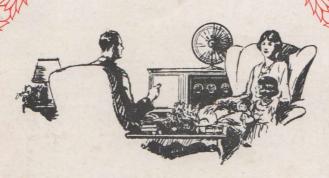
The factory stands not only as an attractive landmark in the midst of a commercial community, but also as a monument to the enterprise and aggressive commercial policy which has enabled Electricity Meter Manufacturing Company Ltd. to advance in a comparatively short number of years from an obscure manufacturing concern to one of the biggest engineering organizations in the whole empire.



# EMMCO'S NEW HOME

Electricity Meter Manufacturing Company Ltd., Waterloo, Sydney. ME magnificent plant housing the entire production activities of

Executive Offices in the Building in front of Main Factory. Foundry beyond it in the left at rear.



#### Value

HE value of a commodity is its definite worth measured in the terms of proper service under given conditions. For several years EMMCO RADIO PRODUCTS have rendered efficient and economical service to thousands of radio enthusiasts. This performance has established for EMMCO a known value, and has gained for them the confidence of Buyers and Builders of Radio Receivers.



EMMCO PRODUCTS ARE GUARANTEED

FOR SALE AT ALL DEALERS

Manufactured by

Electricity Meter Manufacturing Co. Ltd. WATERLOO - SYDNEY

Sole Selling Agents to the Trade:

Manufacturers' Products Pty. Ltd. H. J. Hapgood

CHALLIS HOUSE - SYDNEY